

EFFECTS OF HUMAN RESOURCE DEVELOPMENT CAPABILITY ON FIRM SUCCESS OF AUTO PARTS BUSINESSES IN THAILAND

BY APHI KHAMPHROH

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ABSTRACT

The sources of competitive advantage of the business firm are largely derived from a firm's human resources. In this research, human resource development capability is proposed as a characteristic of an efficiently human resource development system in an organization that can effectively effect the behavior and operational performance of an organization and gain to sustainable competitive advantage. The research objective is to provide some theoretical contributions as well as managerial implication. The central theoretical contribution associates with conceptualizing human resource development capability as a multi-dimension construct. The human capital and contingency theories are applied to explain the relationship among human resource development capability, consequences, antecedent, and moderator.

The population and sample are the auto parts businesses in Thailand, totaling 128 firms and the response rate was approximately 21.59 percent. The data were collected by a questionnaires were sent to the HR directors or managers of each firm. Regression analysis was used for hypothesis testing. The finding indicates that strategicdevelopment connectivity and innovation creativity focus have an influence on all of the consequences both behavioral outcome, operational outcome, and firm success. In addition, employee commitment and operational development have effects on business productivity, and all these have influences on firm competitiveness and firm success.

Likewise, all of the antecedents have a positive influence on human resource development capability. Particularly, information technology capability has a strong, significant, positive effect on all of human resource development capability's dimensions. However, transformational leadership orientation, human capital policy, organizational resource readiness, and environmental complexity force just have a certain partial influence on human resource development capability's dimension. Regarding the moderating effects, survival culture plays a significant moderating role mainly in the relationships among organizational resource readiness, information technology capability with employee competency analysis, and individual ability support. As well, survival culture has been found to moderate the relationship between environmental complexity force and innovation creativity focus.



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CHAPTER I

INTRODUCTION

Overview

Currently, the world's people are collected into a single society by the joint influences of economy, technology, social culture and politics in the name of globalization. Consequently, a business organization is confronted with the radical environmental change in competition (Schmitt & Klarmer, 2015). To survive and succeed in competition, a business organization finds it necessary to achieve a sustained competitive advantage by fulfilling a value-enhancing strategy that differentiates it from its competitors, and is difficult for competitors to imitate (App, Merk, & Buttgen, 2012; Barney, 2000). The competitive advantage of the firm can be achieved by its supply and effective use of resources. If resources are valuable, rare, non-substitutable and inimitable, they are considered as important and strategic and enable the organization to gain a sustainable competitive advantage (App et al., 2012; Barney, 2000).

Toward to the success of a business firm in present, brutally competitive markets depends less on advantages associated with economies of scale, technology, patents and access to capital, and more on innovation, speed and adaptability. Rather, sources of competitive advantage are mainly derived from a firm's human resources (Datta, Guthrie, & Wright, 2005; Pfeffer, 1994, 2000). Because technology, manufacturing processes, products, service and strategy of the firm can be imitated, the intangible asset of human resources is difficult to copy and they represent a unique competitive advantage (Pfeffer, 1994, 2000). Henry Ford (Radhakrishna & Raja, 2015, p. 29) stated, "Take out my building, take out my machines and all capital but leave my men with me and I will become Henry Ford again." Human resource management (HRM) as the design and management of a human resource system, is based on employment policy, comprising a set of policies designed to maximize organizational integration, employee commitment, flexibility and work quality (Alagaraja, 2012). Strategic human resource management is the pattern of planned human resource developments and activities that are related to operational performance and on purpose has led to achieve the organization's goals (Wright & McMahan, 1992). Effectively HRM has impacted on organization ability and operational performance that has led the organization to achieve the goal (Kazlauskaite & Buciuniene, 2008).

Human resource management as a system of an organizational setting, and human resource development (HRD) as a sub-set of human resource management (Jain & Gulati, 2016) emphasizes fuller integration of macro-level analysis linking human resources with organizational-level performance (Alagaraja, 2012). HRD is a process of developing and unleashing expertise for purposes of enhancing an individual, team, work process and organizational performance (Swanson, 2001). It can contribute to gaining sustainable competitive advantage through facilitating the development of competencies of employees and team work in an organization (Jain & Gulati, 2016). Previous research shows that HRD system, processes and practice are positively associated with operational performance such as reduction of turnover intention of employees (Batt, 2002; Singh, 2000), increments in productivity (Singh, 2000), producing a payoff in a team of bottom-line financial performance (Huselid, 1995), greater organizational commitment (Agrawal, 2003; Allen, Shore, & Griffeth, 2003; Gong, Law, Chang, & Xin, 2009; Meyer & Smith, 2000; Zacharatos, Sandy Hershcovis, Turner, & Barling, 2007), higher safety performance (Zacharatos, Barling, & Iverson, 2005), and better service performance (Chuang & Liao, 2010).

According to previous studies, the importance of the HRD process is: training and development, job enrichment, employee empowerment and productive organizational climate (Jain & Gulati, 2016; Jain & Kamble, 2013; Kandula, 2001). From the above, there is much research that studies about HRD in various dimensions, but those research perspective views of HRD are by using only elements of HRD perspective. It has less research that views human resource development in the perspective of characteristics of effective human resource development. In the definitions of HRD, there is some research that demonstrates the best characteristics of HRD system (Jain & Gulati, 2016; Radhakrishna & Raja, 2015; Sheehan, Garavan, & Carbery, 2013; Van Praag & Cramer, 2001). However, these characteristics have been rarely studied and measured the empirical research. In this research, the terms of "human resource development capability (HRDC)" has a broad focus in the best characteristics of human resource development that can effectively influence the operational performance of an organization by a combination from HRD literature and a collection of characteristics of best HRD system from concepts of competency-based needs analysis (Price, Lee, & Kozman, 2010), connatural management approach (Ambrozova, Kolenak, & Pokorny, 2016), learning organization (Armstrong & Foley, 2003), strategic human resource development (Alagaraja & Egan, 2013) and knowledge creativity (Ehlen, van der Klink, Roentgen, Curfs, & Boshuizen 2013), and suggests human resource development capability.

In this research, the successful implementation of human resource development capability has been regarded as a coactive orientation toward five new purposely dimensions which are: 1) employee competency analysis, 2) individual ability support, 3) continuous learning enhancement, 4) strategic-development connectivity and 5) innovation creativity focus. Moreover, the consequences of human resource development capability as employee commitment, operational development, business productivity, firm competitiveness and firm success have also been studied. Also this research focused on internal and external factors from human resource development literature as the antecedents of human resource development capability. They included transformational leadership orientation, human capital policy, organizational resource readiness, information technology capability and environmental complexity force. Survival culture has also been studied as the moderator of this study. Further, auto parts businesses in Thailand has been chosen to study as population frame of this research.

Automotive industry is one of leading industries that has driven the economic growth of Thailand (National Science and Technology Development Agency, 2016). One section of the automotive industry is the auto parts industry (NSTDA, 2016) that represents an extremely competitive business environment in Thailand (Sriboonlue & Ussahawanitchakit, 2014). Thailand is the top one number of automobile and auto part manufacturer in the Association of South East Asian Nations (ASEAN), and the ninth in the world with the total value in export of more 16.5 billion U.S. dollars in 2015, even though the growth has declined in 2016 (NSTDA, 2016). The auto parts businesses in Thailand have an important role in increasing and expanding the economics of Thailand on the part of economic growth and stability (Panya & Ussahawanitchakit, 2013). This research chooses the auto parts industry as a population because requirements of the international standard organization (ISO) of the automotive manufacturer or ISO 9001

and ISO/TS 16949 are an ISO technical specification aimed at the development of a quality management system that provides for continual improvement, emphasizing defect prevention and the reduction of variation and waste in the automotive industry supply chain. ISO/TS 16949 in conjunction with ISO 9001:2008, defines the quality management system requirements for the design and development, production and, when relevant, installation and service of automotive-related products (International Organization for Standardization, 2017). In the part of regarding human resources are necessary to: determine the essential competence for individual performing work moving quality of a product, provide training or take other activities to satisfaction these needs, appraise the effectiveness of the activities taken, ensure that its individuals are conscious of the relevance and importance of their actions and contribute to the achievement of the quality objectives and maintain appropriate records of education, training, skill, and experience (Hekelova & Srdosova, 2009). This standard illustrate that the auto parts industry in Thailand has to place importance on human resource development capability to response the standard regulation, and to achieve its goals in an extremely competitive environment.

Based on the literature reviewed, the human capital theory suggests that an individual level of human resource development can increase their investment motivation, decrease failure in the labor market, and accrue productivity at the organizational level (Bae & Patterson, 2014). It is necessary to place importance on the characteristics of human resource development system to enhance the human resources in their organization, and to increase the operations of an organization (Sheehan, Garavan, and Carbery, 2013). Moreover, the contingency theory suggests that higher organizational performance is an output of the best configuration of internal organizational design and structure with external context and environmental change (Lawrence & Lorsch, 1967). Also, organizational effectiveness depends on the competency of an organization to develop and adapt to the environment (Thorgren, Wincent, & Ortqvist, 2009). Therefore, in this research, the human capital theory has been adopted to demonstrate human resource development capability and its consequences. The contingency theory has also been utilized to interpret the antecedents of human resource development capability and the moderating effect of the

relationships among human resource development capability antecedents and consequences.

According to previous discussion, the new purposed dimensions of human resource development capability in this research are expected to directly effect firm success through the relationships of employee commitment, operational development, business productivity and firm competitiveness. The positive relationship of human resource development capability antecedents expected are: transformational leadership orientation, human capital policy, organizational resource readiness, information technology capability and environmental complexity force. Moreover, these are proposed to be moderated by survival culture.

This research investigate some theoretical contributions as well as managerial implications. The central theoretical contribution associates with conceptualizing human resource development capability as a multi-dimension construct, which is a new perspective of developed dimensions. It differentiates from prior human resource development literature. As a result, it clarifies the nature of human resource development capability for future research. This research also attempts to incorporate several theories to propose logical connects in a conceptual model, including human capital theory (Becker, 1962) and contingency theory (Drazin & Van de Ven, 1985). Furthermore, the results of this research may contribute to managerial practices focusing on human resource development capability that stimulate and enhance the competitiveness and success of the auto parts businesses in Thailand.

Purpose of the Research

The main purpose of this research is to investigate the relationship between human resource development capability and firm success. The specific research purposes are as follows:

1. To investigate the relationships among the five dimensions of human resource development capability (employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity, innovation creativity focus) and employee commitment, business productivity, operational development, firm competitiveness and firm success, 2. To examine the influences of employee commitment and operational development on business productivity,

3. To test the impacts of employee commitment, operational development and business productivity on firm competitiveness,

4. To investigate the relationship between firm competitiveness and firm success,

5. To determine the relationship among transformational leadership orientation, human capital policy, organizational resource readiness, IT capability, environmental complexity force and each of the five dimensions of human resource development capability, and,

6. To test the moderating effect of survival culture that has influenced the relationships among transformational leadership orientation, human capital policy, organizational resource readiness, IT capability, environmental complexity force and each of the five dimensions of human resource development capability.

Research Questions

The key research question is how human resource development capability (employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity, innovation creativity focus) influences firm success. Also, specific research questions are presented as follows:

1. How does each dimension of the five dimensions of human resource development capability have an effect on employee commitment, business productivity, operational development, firm competitiveness and firm success?

2. How do employee commitment and operational development have an influence on business productivity?

3. How do employee commitment, operational development and business productivity relate to firm competitiveness?

4. How does firm competitiveness have an influence on firm success?

5. How do transformational leadership orientation, human capital policy, organizational resource readiness, IT capability, environmental complexity force have

an impact on each of the five dimensions of human resource development capability? and,

6. How does survival culture moderate the influence of leadership orientation, human capital policy, organizational resource readiness, IT capability, and environmental complexity force on each of the five dimensions of human resource development capability?

Scope of the Research

Regarding this research, the human capital and contingency theories are used to draw a conceptual framework and develop a set of hypotheses. All theorizations illustrate the relationships among the dimensions of human resource development capability, its antecedents and its consequences constructs. This research offers the theory of integration to demonstrate the relationship of each variable that focuses on investigation in order to fulfill the research question and objectives. Firstly, human capital is an employee skill acquisition and that skill acquisition can be achieved through education and training (Becker, 1962). The implication of human capital concepts is not only to gain employee skills, but also to enhance employee behavior and operational performance (Jiang, Lepak, Hu, & Baer, 2012). The basement for human capital is used to demonstrate how human resource development capability effect employee commitment, operational development, business productivity, firm competitiveness and firm success. Therefore, a firm with human capital such as human resource development capability, in this research, would be able to gain and archive its sustainable competitive advantage and best performance.

Secondly, the contingency theory suggests that a better understanding of the nature of organizational strategies is gained by examining its antecedents in forms of both internal and external environmental factors (Atuahene-Gima & Murray, 2004; Venkrataman & Camillus, 1984). It predicts that the nature of organizational strategy and organizational performance is better-understood, requiring an investigation of interaction between internal factors and external factors (Drazin & Van de Ven, 1985). On the other hand, no perfect determinant can explain the overall variation of its outcomes. The contingency theory in this research explains the relationships among

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human resource development capability antecedents comprising transformational leadership orientation, human capital policy, organizational resource readiness, IT capability and environmental complexity force. Moreover, the contingency theory is also operated to demonstrate the role of the moderating variable. It assumes that the influences and relationship of human resource development capability and its antecedents are contingent on survival culture.

In the important point to the research question and research objective, strategic human resource management is a strategic capability of an organization (Becker & Huselid, 2006). Thus, human resource development system is a sub-system of human resource management (Jain & Gulati, 2016) and a strategic capability of the organization as well. Human resource development capability has characteristics of best human resource development systems. In more detail, the ability of human resource development is a combination of human resource development and a capability of the organization that allows companies and firms to put their capability in the development of human resources by promoting systematic competency personnel and having the ability to work effectively. Thus, human resource development capability is the conceptual framework for developing human resources with excellence.

Human resource development capability comprises five critical dimensions; namely, employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus. The consequences of human resource development capability in this research consists of employee commitment, operational development, business productivity, firm competitiveness and firm success. This research also investigates the antecedents of human resource development capability, while various antecedent factors affect human resource development capability. These are transformational leadership orientation, human capital policy, organizational resource readiness, IT capability and environmental complexity force. Finally, to complete the relationship, moderators influence the relationship of the conceptualization model based on internal factors of survival culture. Figure 1 shows the relationships between human resource development capability and consequences that include antecedents of human resource development capability. (see Chapter two).

Furthermore, the auto parts businesses in Thailand are selected as a sample group for investigation. A list of 618 auto parts organization in Thailand are provided by the Thai Auto Parts Manufacturers Association (www.thaiautoparts.or.th, accessed December 2, 2016). This chosen industry represents a highly competitive business environment. Particularly, the principles of Automotive Manufacturer ISO 9001 and ISO/TS 16949 regarding human resources raise human resource development in the auto parts industry organization (Hekelova & Srdosova, 2009) and in the Thailand as the best auto parts manufacturer in ASIAN (NSTDA, 2016). It raises competitive intensity in the auto parts industry in Thailand. Therefore, auto parts businesses in Thailand have played a significant role in helping to increase and expand the Thai economy in terms of economic growth and stability (Ussahawanitchakit, 2012). In this research, a valid and reliable self-administered questionnaire is used as the main research instrument for data collection, and both descriptive and inferential statistical techniques consist of factor analysis, correlation analysis, and the Ordinary Least Squares (OLS) regression analyses which are processed to test all postulated hypotheses. In addition, the test of non-response bias is used to prevent possible response bias problems between early and late respondents.

Organization of the Dissertation

This research is structured in five chapters as follows: chapter one provides an overview of the research, the purposes of the research, the research question, the scope of the research, and the organization of the dissertation. Then, chapter two reviews previous research and relevant literature on best human resource development systems, explains the theoretical framework to describe the conceptual model and the relationship among the different variables, and develops the related hypotheses for testing. Chapter three discusses the empirical examination of the of the research methods, including sample selection and data collection procedure, the development and verification of the survey instrument by testing the reliability and validity, the statistics and equations used to test the hypotheses and the table summarizing the definitions and operational variables of the constructs. Chapter four demonstrates the results of statistical testing and discussion. Finally, chapter five details the conclusion,

the theoretical and managerial contributions, the limitations and the suggestions for future research directions.



CHAPTER II

LITERATURE REVIEW AND CONCEPTUAL FRAMEWORK

The previous chapter focuses on the overview of human resource development capability comprising the purposes of the research, research questions, research objective and scope of the research. This chapter demonstrates more precisely the understanding of human resource development capability, theoretical foundations, relevant literature review and research hypotheses, conceptual model of human resource development capability and firm success, and hypotheses development. Therefore, this chapter is organized into three sections. The first section represents the discussion of principal theoretical perspectives employed to explain the research phenomenon. These principal theories include the human capital theory and contingency theory. The second section provides the relevant literature of all constructs in the conceptual framework, definitions and previous studies on the subject that are relevant to human resource development capability. Also, a conceptual model is presented with the definition of all constructs and relevant previous literature. Finally, the final section illustrates the summary of hypotheses relationships among human resource development capability and its antecedents and consequences that are discussed in this chapter.

Theoretical Foundations

Based on literature reviewed, there is little empirical research on human resource development capability integrating theory to describe the complete phenomena. To clearly understand the relationships among human resource development capability, its antecedents, consequences and moderators; the human capital and contingency theories were elaborated to explain the aforementioned relationships. These theories have synergy to describe, explain and predict all variables and relationships purposed in this research. Each of the applied theories is detailed as follows.

Human Capital Theory

The concept of human capital is based on the resource-based view (RBV) theory of Barney (1991). The RBV of the firm has been often used in the management research for over twenty years in order to understand the relationship of resources and competency of firms in the area of the working efficiency creation of profitability (Barney, 1991; Lippman & Rumelt, 1982; Rumelt, 1984; Wernerfelt, 1984). The RBV is the theory used to explain about interesting resources and the competitive advantage of the firms. The resources and capabilities of firms have led firms to competitive advantage, not only in consideration of cost and product differentiation, but that firms should consider resource planning development for responsive external environmental change (Wernerfelf, 1984).

For the viewpoint of the RBV of the firm, Barney (1991) argued that the importance of resources led to competitive advantage that can be classified into four factors such as: 1) Valuable: these resources must have value for the business operation and real competition. Therefore, it can imply the effective resources for strategic creation leading to efficiency and effectiveness, such as well-known firms, business relations, as to technology capability. Moreover, a valuable resource is the resource of opportunity creation and decreases obstacles for the firms (Dess, Lumpkin, & Eisner, 2007). 2) Rare: these resources give the firms advantage. Also, the firms will have advantage from rare resources which do not have other competitors in the industry. Hence, the firms with rare resources have the advantage. 3) Inimitable: These resources are inimitable if any firms need to imitative. They have to use high cost as well as these resource to have identity, cannot be copied by each other, be ambiguous about production, and hardly imitate society such as in culture and creditability (Dess et al., 2007). 4) Non-substitutable: Resources cannot be substituted. Therefore, the resources of the four factors have led the competitor to face obstacles and increase the possibility for higher profit in the future.

The RBV of the firm explains the resources of firms leading to competitive advantage by utilizing the resources for efficiency (Wernerfelt, 1984). One of the source of competitive advantage are derived from human resource of the firm (Datta et al., 2005).Then, there are trends to utilize in strategic human resource management for studying the relationships of human resource practice and operational efficiency of the firms (Combs, Liu, Hall, & Ketchen, 2006; Delery & Doty, 1996; Huselid, 1995). Ansoff (1965) argued that the effort and competency of employees for successful competitive advantage depend on resource utilization, both of tangible and intangible assets that are the foundation of strategy creation. Therefore, this makes one clearly understand receiving sustainable competitive advantage which is the main point of the RBV of the firm. Barney (1991) argued that a human resource is a resource of a firm for the resource-based view qualification. Hence, firms can get benefits from different collaboration of many workforces, leading to the competitive advantage of the firms (Barney & Wright, 1998). Moreover, Becker (1964) suggested the human capital theory focused on an explanation of the human resource concept.

Since the early 1960, human capital theory has taken the basic concepts from Becker (1964), who first proposed that humans are a valuable resource that can be developed into capital. The concept of the human capital theory has been spread throughout the research. According to the accumulation of human capital, increasing human capital leads to productive results and efficient service (Becker, 1964). Therefore, the study about human capital objectively leads to develop human capital, which is the most important thing used in organizational achievement (Datta et al., 2005; Jain & Gulati, 2016; Jiang et al., 2012).

Although human capital is an intangible asset, human capital usually cannot measure the value of a business. Human capital is a property that can add value to the tangible assets. The human is a kind of asset. It is generally unable to compare with business value, but it can be used to compare and measure their value that leads to best management (Brooking, 2010). Human capital management is also a person called human investment. A value is added to the individual. Training offers a higher position and salary. These are cited to upgrade the production standard. According to Becker (2007), money investment in a human is very important. Knowledge of an employee is mostly from outside the school. The on-the job-skill and knowledge employed by the workers appear after their work. Employees with the best health will have the ability to work with good quality. Nalbantian, Guzzo, Kieffer, & Doherty (2004) focused on the measure of human capital. They defined human capital as the stock of accumulated knowledge, as well as a skilled, experienced and creative staff and other relevant

attributes. Therefore, human capital is the key factor that could help humans use it for income or any other kind of work.

Pigou (1932), the first man who brought the theory of human capital into the discussion, has revealed that the investment of human capital is a physical human. Company and employees have a relationship between the employer and employee. Employers want people who are competent. Employees must invest in people, because employees are knowledgeable. It can be helpful to employers to invest in human capital. In the Journal of Political Economy, it states that since the year 1960, the human capital theory has been playing an important role as an influential economic theory. Many economists have taken part in expanding the ideas of human capital theory. The scholars of American economists such as Becker (1964) and Schultz (1998) have the prospective ideas that training and educating expenditures should be invested in money for raising a population's income.

The prospective idea about human capital has been brought to improve human resource value for support of the marketing of labor forces that are up-graded by educational investment, by training, and by raising human value. Block (1990) and Marginson (1993) have introduced the concept of human capital as well. However, the well-known applied ideology was printed in the year 1968 by Minser and Becker, titled "Human Capital.

Continually, Becker (2007) has divided the ideas about human capital into two characteristics which are specific and general. The specific human capital implicates personal knowledge and skill. The general human capital implicates public benefit. Human capital is analyzed as social capital, instructional capital and individual capital leadership. All these characters are dominated by human capital. Human capital refers to the knowledge, skills and competencies which carry people. There is a necessity to perform tasks such as technical skills, innovation, creativity, and capacity for leadership. Moreover, the human capital theory has been used as a reference theory for much research. For example, the human capital theory is used in the explanation the relationship between human resource management and employee motivation (Delery & Shaw, 2001; Gardner, Wright, & Moynihan, 2011), work attitudes (e.g., job satisfaction, commitment, perceived organizational support) and work behaviors (e.g., organizational citizenship behavior) (Jiang et al., 2012). Moreover, the underlying values of human



resource in the organization would tend to include learning as the key to ongoing improvement (Senge, 1990). Human capital theory has been also used to explained human resource outcome (e.g., voluntary turnover) and operational outcome such as organizational effectiveness (Wrigh, Dunford, & Snell, 2001), productivity (Dess & Shaw, 2001), product and service innovation (Crook, Todd, Combs, Woehr, & Ketchen Jr, 2011) and financial outcome (Morrow & McElroy, 2007; Shaw, Gupta, & Delery, 2005) included organizational profitability (Curtis, Hefley, & Miller, 1995) and organizational fit and flexibility (Evan & Davis, 2005; Wright & Snell, 1998).

However, the human capital theory fails the investigation of realism, due to weaknesses of method which for example in use of a single theoretical lens and closed system modeling, inappropriate application of mathematical tool, and multi-variable analysis of interdependent variables. Human capital theory imposes a single linear pathway on the complex path between heterogeneous education and work. It cannot explain how education augments productivity, or why salaries have become more unequal, or the role of status. This limitations are discussed with reference to research on social structure, work, earnings and education (Marginson, 2017).

In conclusion, the human capital theory is applied to explain the relationship among the five new purposed dimensions of human resource development capability. This foundation is the characteristic of human resource development system as a comprehensive set of firm abilities that enable firms and organizations to acquire, integrate, adapt, renew and combine their resources and capabilities, which fortify and patronize human resource outcomes. The components of the human resource outcome, in this research, are assessed by employee commitment, operational development, business productivity, firm competitiveness and firm success.

Contingency Theory

The contingency theory is a classic theory dominating organizational and strategic management research (Nath & Sudharshan, 1994). The core concept of the contingency theory is often used to explain research phenomena in all business management, marketing, finance, economic, and accounting literature. It attempts to identify and evaluate the conditions under what is likely to occur (Schoech, 2006), then decides the best practices and solutions regard the emerging situations.

Prior studies widely employed the contingency theory to examine the relationships between various endogenous and exogenous contextual factors (Wallace & Kreutzfeldt, 1991). Organizational context is the effect on the resource and development of organizations and human resource development (Katou, 2009), including on-the-job training (Versloot, Jong, & Thijjen, 2001). The heart of the contingency theory posits that if the firm wants to survive or effectively perform business operations, then the organizational structure and process of a firm must fit with its contexts: firm characteristics, culture, business environment, market conditions and technology (Cadez & Guilding, 2008; Drazin & Van de Ven, 1985). In the contingency theory, organizational structure is viewed as a function of context that is simultaneously determined by the external business environment, history and other organizational factors (Anderson & Lanen, 1999). These external factors are environmental or industrial factors such as industrial competition, government regulations, business environmental uncertainty (Gupta & Govindarajan, 1984; Khandwalla, 1972), stakeholder involvements and expectations, technological change, society, and economic conditions (Sauser, Reilly, & Shenhar, 2009). This leads to establishing or improving organizational management appropriate with changed situations, in order to obtain growth and survival (Chenhall & Langfield –Smith, 1998). Endogenous factors are the organizational factors or internal factors such as corporate vision, organizational climate, firm resources, experience, leadership and firm policy (Lawrence & Lorsch, 1967). The fits between exogenous and endogenous factors are deliberate organizational and firm performance. Therefore, superior organizational performance results in the proper alignment of internal and external contextual factors and operational management (Phokha & Ussahawanitchakit, 2010). Moreover, the contingency theory has been used as a reference theory for much researches. For example, the contingency theory is used to explanation the relationship between information technology capability and firm performance through environmental context (Stoel & Muhanna, 2009), explained environmental variables through organizational strategy and operational variables on organizational performance (Ginsberg & Venkatraman, 1985).

However, the contingency theory cannot adequately explained in various types of action which can be taken under different situations and it cannot offer much assistance to the practice of management. Moreover, the managerial action is to be taken involves analysis of a large number of variables with multifarious dimension. Therefore, there is a possibility that managers may ignore the thorough analysis of all these variables and may resort to short-cut and easier way. In the empirical testing, it also difficult to test all factors in any situations because of the involvement of too many factors (Levitt et al., 1999).

The contingency theory in strategy literature holds that an appropriateness of strategies is contingent on competitive settings of businesses (Zeithaml, Varadarajan, & Zeithaml, 1988). In this research, the contingency theory is applied to explain the congruence among five antecedents and human resource development capability. This research expects that the fruitfulness of human resource development capability instituted by a firm will vary depending on transformational leadership orientation, human capital policy, organizational resource readiness, IT capability and environmental complexity force. Moreover, the moderating approach is illustrated as a contingent variable which depends on the interaction between each of five antecedents and survival culture on human resource development capability.

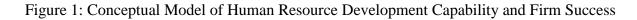
Relevant Literature Review and Research Hypotheses

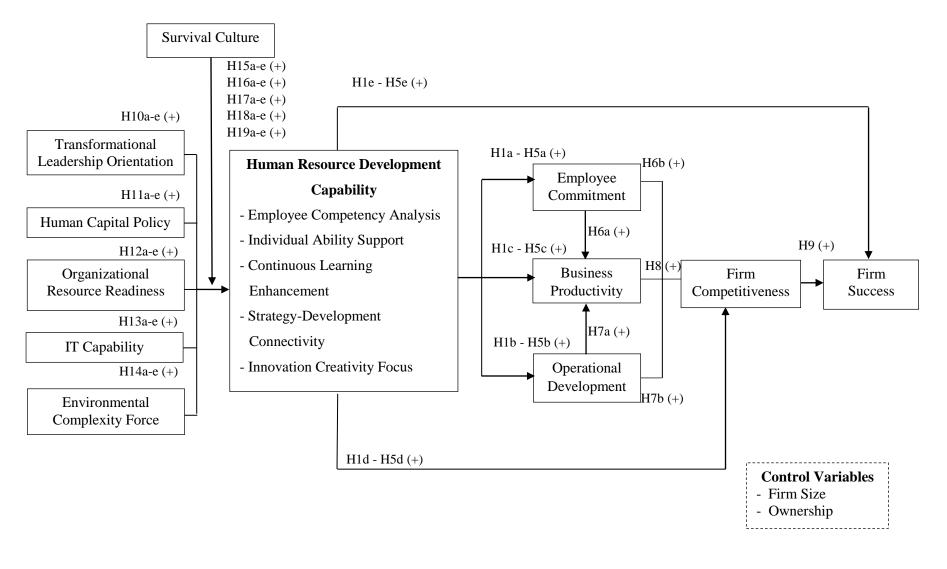
According to the theoretical foundations, this research is developed toward the integration of the human capital theory and contingency theory. Human resource development capability is a main variable and the center of this research. As described earlier, this research purposes that human resource development capability is positively and directly associated with firm success. Moreover, the mediating effects of employee commitment, operational development, business productivity and firm competitiveness are tested. Employee commitment, operational development, business productivity and firm success.

Secondly, the five antecedents of human resource development capability (transformational leadership orientation, human capital policy, organizational resource readiness, IT capability and environmental complexity force) are investigated and expect to yield positive relationships.

Lastly, this research also purposes that the strength of survival culture increases the relationship between human resource development capability and its antecedents. Thus, Figure 1 illustrates the conceptual model of human resource development capability that includes the antecedents, consequents and moderating variables.







Human Resource Development Capability

Human resource management is defined as the way employees are recruited, organized, developed, appraised, motivated and retained. Through proper planning and effective management of their people, organizations can achieve their goals (Wright & McMahan, 1992). Three primary dimensions of human resource management consist of skill-enhancement, motivation-enhancement and opportunity-enhancement (Jiang et al., 2012). It is a system in an organizational setting that works as a subset of the larger organizational system, and human resource development works as a subset of the human resource management system (Jian & Gulati, 2016). Human resource development is the activities and processes which are intended to have an impact on an organization and individual learning, and is constituted by planned interventional and individual learning processes (Hamlin & Stewart, 2011). Human resource development includes planned activities and processes designed to enhance organizational and individual learning and development human potential. It maximizes organizational effectiveness and performance, and helps bring about effective and beneficial change within and beyond the boundaries of an organization (Hamlin, 2004). Similarly, human resource development is the process of developing the human resources working in an organization by modernizing their knowledge and upgrading their skill, attitudes, and perceptions in order to meet the changing trends of the globalized economy, and also to utilize those developments for the attainment of the organizational goals (Michael, 1995). Another crucial viewpoint of human resource development is a system of strategic development and utilization of people working efficiently in the organization to cope with the environmental changes in business, competently managing the business challenges, and to gain competitive advantage (Huda, Karim, Ahmet, & Olu-Olu, 2007). Furthermore, it has some research that describes the definition of human resource development, which is shown in Table 1 below.



| Author(s) | Definition of Human Resource Development | |
|---------------------|--|--|
| Harbison & Myers | Human resource development is the process of increasing | |
| (1964) | the knowledge, the skills and the capacities of all the people | |
| | in a society. | |
| Chalofsky & Lincoln | The discipline of human resource development is the study | |
| (1983) | of how individuals and groups in organization change | |
| | through learning. | |
| Nadler & Nadler | Human resource development is a comprehensive learning | |
| (1989) | system for the release of the organization's human potentials | |
| | – a system that includes both vicarious (classroom, | |
| | mediated, simulated) learning experiences and experiential, | |
| | on-the-job experiences that are keyed to the organization's | |
| | reasons for survival. | |
| Michael (1995) | Human resource development is the process of developing | |
| | the human resources working in an organization by | |
| | modernizing their knowledge and upgrading their skill, | |
| | attitudes and perceptions in order to meet the changing | |
| | trends of the globalized economy and also to utilize those | |
| | developments for the attainment of the organizational goals. | |
| Swanson (1995) | Human resource development is a process of developing and | |
| | unleashing human expertise through organizational | |
| | development and personal training and development for the | |
| | purpose of improving performance | |
| Swanson & Holton | Human resource development is a process of improving an | |
| (2001) | organization's performance through the capabilities of its | |
| | personnel. Human resource development includes activities | |
| | dealing with work design, aptitude, expertise and | |
| | motivation. | |

Table 1: The Summary of Definitions of Human Resource Development

| Author(s) | Definition of Human Resource Development |
|----------------------|---|
| Hamlin (2004) | Human resource development includes planned activities |
| | and processes designed to enhance organizational and |
| | individual learning, development human potential, maximize |
| | organizational effectiveness and performance and help bring |
| | about effective and beneficial change within and beyond the |
| | boundaries of organization. |
| Harrison & Kessels | HRD as an organizational process comprises the skilful |
| (2004) | planning and facilitation of a variety of formal and informal |
| | learning and knowledge processes and experiences, |
| | primarily but not exclusively in the workplace, in order that |
| | organizational progress and individual potential can be |
| | enhanced through the competence, adaptability, |
| | collaboration and knowledge-creating activity of all who |
| | work for the organization. |
| Huda & colleagues | Human resource development is a system of strategic |
| (2007) | development and utilization the peoples working efficiently |
| | in the organization to cope with the environmental changes |
| | in business, competently managing the business challenges |
| | and to gain competitive advantage. |
| Jain & Gulati (2016) | Human resource development is the process of developing |
| | value additions in the capabilities of individual employee, |
| | teams of employees and organization as a whole. |

Table 1: The Summary of Definition of Human Resource Development (continued)

Human resource development system has a direct or indirect bearing on organizational performance (Jain & Gulati, 2016). Human resource contribution emphasizes fuller integration of micro-level and macro-level approaches and analysis linking human resource with organizational-level performance outcome (Alagaraja, 2012). This perspective is very significant for the management of organizations to look into while making strategic choices. There exists a consensus on the premise that human resource development system can contribute to gain sustainable competitive advantage though facilitating the development of competencies of people and teamwork in an organization (Jain & Gulati, 2016). Human resource development method and technique consist of on-the-job training, mentorship, apprenticeship, vestibule training/simulators, web-based learning, instructor-led classroom training, programmed self-instruction, case studies/role playing, and systematic job rotations and transfers (Chatzimouratidis, Theotokas, & Lagoudis, 2012). Human resource development system and processes influence the organization's productivity, adaptability, flexibility, employee retention, quality of product or services competitiveness, reduction in costs, and as a whole, organization's overall performance (Jiang et al., 2012). In extant empirical research, human resource development system has a significant, positive impact on different outcomes of organizational performance (Batt & Colvin, 2011) including the productivity of human resource (Cho, Woods, Jang, & Erdem, 2006; Ely, 2004; Zwick, 2006), enhancement in profitability (return on investment, return on assets) (Ballot, Fakhfakh, & Taymaz, 2006; Faems, Sels, De Winne, & Maes, 2005; Paul & Anantharaman, 2003), quality of products or services (Katou & Budhwar, 2007; Lawler, Mohrman, & Ledford, 1998), employee commitment (Ahmad & Schroeder, 2003; Bulut & Culha, 2010) and a firm's overall performance (Fey & Bjorkman, 2001; Martell & Carroll, 1995).

In the human resource development research, three characteristics of human resource development is identified (Nalan & Garavan, 2016) that consists of: first, organizational level human resource development architecture or system characteristics that include the strategy or learning orientations (Aragon-Sanchez, Barba-Aragon, & Sanz-Valle, 2003; Gold & Thorpe, 2008), human resource development policy and programs (Admiraal & Lockhorst, 2009; Beaver & Lashley, 1998) and the strength of the human resource development system in terms of linkages between policies and practices (Devins & Johnnson, 2003; Gray & Mabey, 2005; Hoque & Bacon, 2008; McCole, Morrow, Ponsonby, & Kelly, 2001). Second, human resource development practice includes the use of external management training courses and qualification-based programs (Bryan, 2006; Loan-Clarke, Smith, & Whittaker, 2000; Marshall, Alderman, Wong, & Thwaites, 1995; Matlay, 2004), the amount of time devoted to delivering formal training programs (de Kok, 2002), the type of training methods used

(Fernald, Solomon, & Bradley, 1999; Raymond, Uwizeyemungu, Bergeron, & Gauvin, 2012; Sambrook, 2003; Smith & Barrett, 2014) and the use of apprenticeship learning for external qualifications (Forde & MacKenzie, 2004). Third, human resource development climate that is defined as perceptions that the employees can have on the developmental environment of their organization (Lakkoju, 2014) include opportunities for managers and employees to develop (Coetzer, 2007; Coetzer & Perry, 2008; Zientara, 2009), the climate for on-the-job training (Lorenzet, Cook, & Ozeki, 2006), the content of social support for employee involvement in training (Rauch, Frese, & Utsch, 2005) and employee attitudes concerning participation in human resource development (Wang, Tolson, Chiang, & Huang, 2010). In this research, it focuses on overall human resource development characteristics in a differential perspective.

In a review of the literature, previous research on human resource development literature has been concerned with many aspects such as training man-days per employee per year (Radhakrishna & Raja, 2015), general climate, workplace culture and human resource development mechanisms (Babushe & Narendranath, 2013; Lakkoju, 2014), planning support and personal management style (Hamlin, 2002), training and job enrichment (Rao, 1990), human resource development practice (Veth, Emans, Van der Heijden, Korzilius, & De Lange, 2015), level of human resource development competency (Khalil et al., 2009), investment on human resource development (Kumar, Nangia, & Rangnekar, 2012), improving individual effectiveness and performance (Hamlin & Stewart, 2011), training and development methods and techniques (Chatzimouratidis et al., 2012; Clarke, 2004), and outcome of human resource management (Zavyalova, 2009). More surprisingly, there is only a little empirical research that explains and measures best characteristics of human resource development system. Human resource development capability is a key element of this research. The term "capability" focuses on the role of strategic management in appropriately adapting, integrating and reconfiguring internal and external organizational resources, and the ability to match the requirements of the changing environment (Teece, Pisano, & Shuen, 1997).

Therefore, in this research, human resource development capability refers to the ability of a firm to be successful in developing human resources working in an organization by modernizing their knowledge and upgrading their skill, attitudes and perceptions in order to meet the changing trends of the globalized economy and also to utilize those developments for the attainment of the organizational goals. Consequently, these reflect that resources and capability are key success factors for competitive advantage and sustainability (Barney, 1991); and human resource development capability becomes an increasingly important component of firm success.

This research proposes five dimensions of human resource development capability from an integrative review of prior literature consisting of employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus. Therefore, the research reviews the key dimension and other dimensions of human resource development capability in a diverse range of this term's definitions by divergent researchers who relate to a number of different perspectives. The summary of the key prior literature review on value creation is presented in Table 2 as the summary of the key conceptual and empirical research on human resource development capability.



| Authors | Key Issue Examine | Main Finding |
|----------------------|---|---|
| Rao & Pereira (1986) | Recent experiences in human resource | Human resource development is a process need to make the |
| | development. | people grow continuously and the growth of people will |
| | | ultimately lead to the growth and development of organization. |
| Smith (1988) | Human Resource Development: An Overview | Human resource development consists of programs and |
| | | activities, direct and indirect, instructional and/or individual |
| | | that positively affect the development of the individuals and the |
| | | productivity of and profit of the organization. |
| London & Smither | Empowered self-development and continuous | Organizations that need to change rapidly in response to |
| (1999) | learning and also suggest continuous learning | changing conditions, structured employee and management |
| | organization. | development plans and programs become costly and |
| | | impractical. Organizations can provide the resources that enable |
| | | individual learning, but individuals must increasingly be |
| | | responsible for their own development. |



| Table 2: Summary of the Key Conceptual and Empirical Research on Human Resource Development Capability (continued) |
|--|
|--|

| Authors | Key Issue Examine | Main Finding |
|--------------------|---|--|
| Luoma, 2000 | Investigating the link between strategy and human | The capability-driven human resource development is |
| | resource development and suggest the capability- | introduced basing idea on organizational capability as a central |
| | driven human resource development approach. | source of competitive advantage. The organizational capability |
| | | should be emphasized as the primary object of strategy a |
| | | managerial attention should be focused on factors that support |
| | | the capability. |
| Harrison & Kessels | Human Resource Development in a Knowledge | Human resource development as an organizational process |
| (2004) | Economy: An Organizational View | comprises the skilful planning and facilitation of a variety of |
| | | formal and informal learning and knowledge processes and |
| | | experiences, primarily but not exclusively in the workplace, in |
| | | order that organizational progress and individual potential can |
| | | be enhanced through the competence, adaptability, |
| | | collaboration and knowledge-creating activity of all who work |
| | | for the organization. |



| Authors | Key Issue Examine | Main Finding |
|----------------------|---|---|
| Neffke & Henning | Investigate relatedness between industries in terms | The degree to which firms can draw on their existing strengths |
| (2013) | of the extent to which the same human capital can | to venture into new markets should therefore strongly affect |
| | be employed in different industries. In particular, | their diversification decision. All the different resources of a |
| | the author investigate the skill-relatedness among | firm, an important – if not the most important –resource of a |
| | different industries by investigating labor flows | firm is its employees and their skills. The author arrives at a |
| | between industries. | measurement of relatedness that is derived from the revealed |
| | | ability of skilled employees to move between industries. |
| Deb (2010) | Human resource development theory and practice. | To be survival in the present scenario of cut-throat competition, |
| | | the organization have to develop appropriate human resource |
| | | development strategies to manage their workforce in an |
| | | organized manner and align their potential with that of their |
| | | corporate missions and objectives. |
| Price and colleagues | Use of competency-based needs analysis in | A basic training needs analysis examines the current state of |
| (2010) | developing employee training program. | performance and defines the desired state of performance, with |
| | | the gap between the states characterizing needs. |



| Authors | Key Issue Examine | Main Finding |
|----------------------|---|---|
| Ehlen and colleagues | Explain that how the "enactment" of the three | HRD has a critical role in conveying that innovation should be |
| (2013) | dimensions of social capital increases knowledge | treated as an organic process by key stakeholders. HRD can |
| | productivity and whether increased enactment is | support innovation by targeting each of the 4 factors of social |
| | associated with improved innovation. | capital identified and also by being an active supporter, coach |
| | | and mentor to stakeholders involved with innovation. Action |
| | | research which provides stakeholders with insight into their |
| | | actions can help to facilitate change and innovation. |
| Kennett (2013) | Discusses the way in which employers provide | Employees expect their investment in training to raise the |
| | training and how it has an impact on individual, | capability of the organization's collective skills and thereby to |
| | organizational and industry skill development. | improve its productivity. |
| Park, Song, Yoon, & | Organizations can stimulate individual innovative | Human resource development practitioners have a role in |
| Kim (2013) | behavior by using proactive measures to | enhancing employees' innovative behavior by encouraging a |
| | encourage an organizational learning culture and | learning culture. HRD activities aimed at promoting employee |
| | employee engagement. | engagement can have a positive association with innovation and |
| | | organizational performance. |



| Authors | Key Issue Examine | Main Finding |
|-----------------------|---|--|
| Huda, Anika, & Khaled | Study empirically the status and scope of strategic | A strategically-oriented human resource development function |
| (2014) | human resource development for manufacturing | can make a significant contribution to the success of an |
| | sector. | organization and this will manifest itself in the organization's |
| | | ability to innovate, the quality of its strategic decision making, |
| | | individual performance and productivity and how closely the |
| | | skills of the organization are aligned with its strategic mission |
| | | and plans and it most have evaluation system to identify an |
| | | important and ability of employee to design work and planed a |
| | | training program. |
| Sheehan & Garavan, | Innovation and human resource development. The | New growth theory posits that human capital, innovation and |
| (2014) | critical role of innovation for sustained national, | knowledge are significant contributors to growth. |
| | regional and organizational competitiveness | |

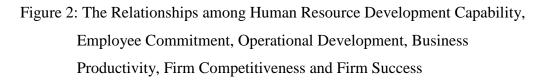


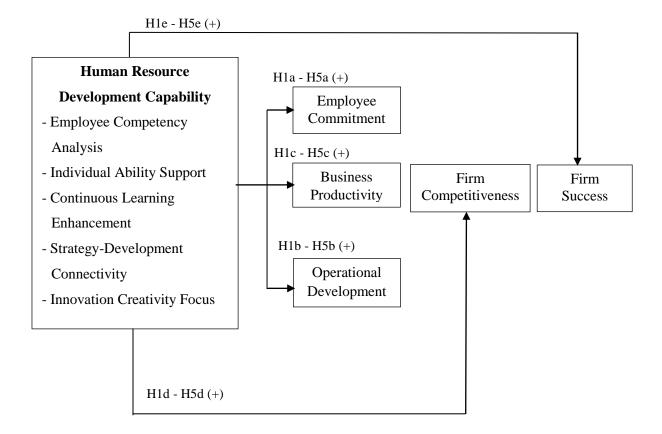
| Authors | Key Issue Examine | Main Finding |
|----------------------|--|---|
| Radhakrishna & Raja | The impact of human resource development | HRD includes quality of working life improvement |
| (2015) | initiatives on the performance of employment | opportunities such as employee training, employee career |
| | relations system in giant public sector steel | development, performance management and development, |
| | industry in south India. | coaching, mentoring, succession planning, key employee |
| | | identification, tuition assistance, firm development and engagement |
| | | which have a direct bearing on building employee relations. HRD is |
| | | a continuous process to develop their general capability as an |
| | | individual and enable them to exploit their inner potential. |
| Ambrozova and | Introduce the concept of Connatural Management | The concept of one of the aspect of connatural management |
| colleagues (2016) | Approach (CNM) and its potential for quality | approach (CNM) is individual skill development for an |
| | development of an individual in relation to | effective action in the cognitive domain. |
| | management of organization and processes as well | |
| | as management of people and human systems | |
| Jain & Gulati (2016) | Review of a wide array of previous research | Human resource development is the process of developing |
| | studies on human resource development and its | value additions in the capabilities of individual employees, |
| | impact on organizational performance as well as | teams of employees and organization as a whole. |
| | to synthesize the review results. | |



The Relationships among Human Resource Development Capability and Employee Commitment, Organizational Development, Business Productivity, Firm Competitiveness, and Firm Success

This section investigates the relationship among human resource development capability, which consists of five purposed dimensions: employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus; and five critical consequences which are employee commitment, operational development, business productivity, firm competitiveness and firm success. These relationships are presented as below:







Employee Competency Analysis

Most human resource developments have evaluation systems to identify an important ability of employees to appropriately design work and plan a training program (Huda et al., 2014). Most fields of employee training have been gained through a variety of both methods with a heavy emphasis of on-the-job training within an apprentice-type learning system (Price et al., 2010). Although an on-the-job training program is the traditional method in teaching survey field employees on their jobs, when viewed critically, it has various limiting factors. Firstly, training for a competency of an employee through this type of learning process is lengthy in time. Secondly, the extent of knowledge gained can be limited in scope depending on the specific market in which the individual was employed. A competency-based needs analysis examines the current state of performance and defines the desired state of performance, with the gap between the states characterizing needs (Rossett, 1987) to truly understand the actual need for employee training (Price et al., 2010). Misanchuk (1984) identifies three main components of training needs including the competence or ability of individuals to perform a task, the relevance of a skill or ability for the job role, and finally, the individual's desire to undertake training. To focus on problem identification in the beginning of the process is, in some regards, not looking ahead toward the primary objective determining training needs to develop competent employees.

In this research, the concept of employee competency analysis is not only limited to the estimation of skill or an ability of individual to perform a task (Huda et al., 2014). The precise concept of employee competency analysis includes the aspect of identification and estimation of the actual need for employee training, and an individual's desire to undertake training (Price et al., 2010). Moreover, the concept of employee competency analysis also refers to the firm's operation for a human resource development planning. Therefore, employee competency analysis in this research is defined as the firm's activities to identify and classify individuals and job-need-skill or the ability that includes an individual's desire to undertake training for effective human resource development planning (Huda et al., 2014; Price et al., 2010; Rossett, 1987).

Many research studies have mentioned that that competency-based model is an important source for organizational performance in terms of employee development (Price et al., 2010). For example, the analysis of competency is positive a predictor on

employee commitment (Khan, Masrek, & Nadzar, 2015). Analysis discovered the absence of engineering curriculum for engineers from across various departments to be competent in design and development-related jobs (Ng, Chan, & Wong, 2006). Competency analysis would help bankers in enhancing their capabilities, promote benefits, reduce problems and also identify the factors related to success and failure of the implementation process (Imtiaz & Shahid, 2013). Therefore, the firm with employee competency analysis cues in human resource development capability will be able to attain greater employee commitment, operational development, business productivity, firm competitiveness and firm success. Thus, the hypotheses are proposed as follows:

Hypothesis 1a: Employee competency analysis is positively related to employee commitment.

Hypothesis 1b: Employee competency analysis is positively related to operational development.

Hypothesis 1c: Employee competency analysis is positively related to business productivity.

Hypothesis 1d: Employee competency analysis is positively related to firm competitiveness.

Hypothesis 1e: Employee competency analysis is positively related to firm success.

Individual Ability Support

Human resource development is the process of developing value additions in the capabilities of individual employees, teams of employees and the organization as a whole (Jain & Gulati, 2016). Employees in any organization expect that their investment in training will raise the capability of the organization's collective skills and thereby improve its productivity (Kennett, 2013). The general belief is that investment in certain forms of training and development has costs and economic benefits for the individual and the organization (Elliot, 1991). An individual may decide to stay or leave an organization after considering the costs and benefits of the training and development that they receive. Investment in training and development benefits individuals by equipping them with skill that improves their productivity, thereby increasing their likelihood of promotion and making them more attractive to employers (Blundell, Dearden, & Meghir, 1996). The literature on the economics of training largely focus on the impact of firm-specific and general training on employee mobility across organizations (Kennett, 2013). Firm-specific training funded by the employee has lower rates of labor turnover (Becker, 2007). By contrast, general training (which is often not funded by the employer) has the effect of increasing employee mobility. Some training that is of value to employers other than the one providing the training may be funded by employers (Stevens, 1994). Therefore, if the individual development was coupled with perceived job security, growth opportunities, and wages higher than offered in the labor market, then the employee turnover was likely to decrease (Kennett, 2013). Moreover, human resource development includes planned activities and processes which are intended to have impact on organizations and individual learning, and is constituted by planned interventional and individual learning processes (Hamlin & Stewart, 2011).

Therefore, one of the aspects of the connatural management approach (CNM) that focuses on methods of developing these fine skills and natural talents of each individual enable them to effectively realize their potential in the unceasingly changing world. The concept of one of the aspects of the connatural management approach (CNM) is individual skill development for an effective action in the cognitive domain (Ambrozova et al., 2016). Therefore, this research suggests that an organization should enhance the general training development of an individual's ability. Three main components of individual ability in the context of human resource development (Ambrozova et al., 2016) consist of: firstly, rationality is the ability to logically consider information and knowledge in the framework of a given cognitive model. Secondly, sensibility is the ability of system thinking (Senge, Lichtenstein, Kaeufer, Bradbury, & Carroll, 2007) as reasonableness. Also wisdom or creative thinking is a process to be applied not only in linear and symmetrical tasks, but also in heuristics, asymmetrical tasks or tasks requiring decision-making influenced by uncertainty, permanent change, and other things.

By employing the organizational support literature that defines organizational support, it is the level of enhancement within an organization toward organizational activity (Jeong, Pae, & Zhou, 2006). In this research, the concept of individual ability support is not only limited to the specific ability of an employee (Kennett, 2013). The concept of individual ability support includes the general ability consisting of rationality, system thinking and creative thinking (Ambrozova et al., 2016). Moreover, it also includes the desire to develop other abilities of the employee (Kennett, 2013). Therefore, individual ability support in this research is defined as the encouragement of an organization in providing absolute resources to improve the skills of employees and give an opportunity to use prominent employee skills which includes development of the desire for other ability development of the employee (Ambrozova et al., 2016; Kennett, 2013).

From previous empirical research showed both positive and negative effects of individual ability development on the turnover intention of employees (Kennett, 2013). However, under the situations of employees who receive a great deal of specific training, job security and growth opportunities have a lower rate of turnover and improve employee productivity (Ichniowski, Shaw, & Prennushi, 1997) including individual outcome (Jameson, 2000; Matlay, 2002; Paloniemi, 2006; Perry, Badger, Lean, & Leybourne, 2010), operational performance (Beaver & Hutchings, 2005; Lange, Ottens, & Taylor, 2000; Macpherson & Jayawarna, 2007), and organizational performance (Nolan & Garavan, 2016). Therefore, a firm with individual ability support cues in human resource development capability will be able to attain greater employee commitment, operational development, business productivity, firm competitiveness and firm success. Thus, the hypotheses are proposed as follows:

Hypothesis 2a: Individual ability support is positively related to employee commitment.

Hypothesis 2b: Individual ability support is positively related to operational development.

Hypothesis 2c: Individual ability support is positively related to business productivity.

Hypothesis 2d: Individual ability support is positively related to firm competitiveness.

Hypothesis 2e: Individual ability support is positively related to firm success.

Continuous Learning Enhancement

Human resource development is a process that needs to make the people grow continuously and the growth of people will ultimately lead to the growth and development of an organization (Rao & Pereira, 1986). The nature of work is continuously changing (Ilgen & Pulakos, 1997). In organizations that need to change rapidly in response to changing conditions, structured employee and management development plans and programs become costly and impractical (London & Smither, 1999). Employees must prepare for tomorrow today and need to seek information to identify skill gaps, recognize areas to improve current performance, keep up with advances in their profession, and anticipate how changes elsewhere in the firm and the industry may affect work demands and skill requirements (London & Smither, 1999). Self-development is important to individuals in today's financially constrained, qualityoriented, rapidly changing organization. Employees need to consider whether they might be better of finding and preparing for other career directions. Employees need to engage in continuous learning to keep up with organizational changes and ensure their continued contribution to the organization.

An organization's role in self-development is in continuous learning organization, where there is an organization wide concern, value, belief and expectation that general knowledge acquisition and application are important (Tracey, Tannenbaum, & Kavanagh, 1995). Organizations provide resources and support that promote continuous learning (Holt, Noe, & Cavanaugh, 1996). Self-development is especially important to continuous learning in changing work environments. It needs to be guided by managers and human resource professionals who facilitate the learning process by providing feedback, coaching and resources for development (Hackman, 1986). Organization that establish continuous learning cultures provide training and they reward the use of new skills and knowledge on the job (London & Smither, 1999). This enhances employees' awareness of the need for and value of, acquiring knowledge, skill and abilities throughout one's career. The literature is often focused on selfdevelopment and improvement, with learning organizations being presented as visionary ideals, and where learning behavior improves as a result of proactive and empowering intervention by senior management (Sicilia & Lytras, 2005). The learning organization is defined as learning continuously (Watkins & Marsick, 1993). Organizations should adopt flat, decentralized organizational structures that facilitate open communication and dialogue (Garvin, 1993). Team working facilitates individual growth and empowerment and therefore presents the ideal structural arrangement for organizations concerned to promoting an environment conducive to learning (Leonard-Barton, 1995). Other HR systems should be developed in line with this aspiration; for example, individual should have opportunities to participate in organizational decisionmaking, and reward systems should be designed to recognize the achievement of learning goals (Armstrong & Foley, 2003; Wang & Admed, 2003).

In this research, continuous learning enhancement is defined as firm motivation in self-study, knowledge and experience interchange to facilitate the unceasingly selfdevelopment of knowledge, skill, and the ability of the employee (Armstrong & Foley, 2003; Hackman, 1986; Holt et al., 1996; London & Smither, 1999).

Several research studies have mentioned that continuous learning organization is an important source of organizational performance. For example, HR systems in learning organizations provide a forum for discussion of staff developmental needs and gaining insight into staff feelings about work in a way that is tempered by deep and broad understanding of customer needs and requirements (Shipton, Zhou, & Mooi, 2013). Organizational learning helps organizations to affect the behavior of employees (Hurley, 2002; Hurley & Hult, 1998), increase their level of commitment and satisfaction that encourage performance improvement, and accomplishing organizational objectives efficiently (Ababneh, 2013). Therefore, a firm with continuous learning enhancement cues in human resource development capability will be able to attain greater employee commitment, operational development, business productivity, firm competitiveness and firm success. Thus, the hypotheses are proposed as follows:

Hypothesis 3a: Continuous learning enhancement is positively related to employee commitment.

Hypothesis 3b: Continuous learning enhancement is positively related to operational development.

Hypothesis 3c: Continuous learning enhancement is positively related to business productivity.

Hypothesis 3d: Continuous learning enhancement is positively related to firm competitiveness.

Hypothesis 3e: Continuous learning enhancement is positively related to firm success.

Strategy-Development Connectivity

Human resource development is a system of strategic development and utilization for people working efficiently in the organization to cope with the environmental changes in business, competently managing the business challenges and gaining competitive advantage (Huda et al., 2007). To survive in the present scenario of cut-throat competition, the organization has to develop appropriate human resource development strategies to manage its workforce in an organized manner and align its potential with that of its corporate missions and objectives (Deb, 2010). Strategy and strategic implementation are central to organizational success and longevity (Beer & Eisenstat, 2000). However, the extant literature and anecdotal evidence from human resource development and management indicate that human resource development is often excluded from central roles related to strategy formulation and implementation (Becker & Huselid, 2006). Despite literature and testimony hailing the importance of human resource development for human capital growth and deployment (Swanson &



Holton, 2009) and the importance of human resource development-related knowledge and processes for organizational success, scant literature is available detailing how management utilizes and assimilates human resource development for organizational strategy implementation (Alagaraja & Egan, 2013). Organizational strategies exploit tangible resources (for example, technology, products, and services) as well as intangible resources and capabilities (for example, human resources, creation of a learning culture, leadership) in the organization. Strategies that exploit intangible resources such as the effective utilization of human resource development initiatives are more likely to be sources of competitive advantage rather than those that do not because these strategies are path-dependent, socially complex, and causally ambiguous (Barney, 1991; Itami & Roehl, 1987). Intangible resources are costly and difficult to imitate, and therefore translate into unique sources of competitive advantage for organizations (Ray, Barney, & Muhanna, 2004).

Therefore, based on the study of Alagaraja and Egan (2013) there is strong evidence on the importance of leadership commitment and involvement of middle managers in strategy implementation. The top management was instrumental in integrating human resource development system, practices and policies at all phases of the strategy formulation, planning, implementation and evaluation. Human resource and human resource development managers must recognize their critical role in acquiring and developing talent to build the momentum and commitment for successful strategy implementation outcomes. Human resource and human resource development managers need to recognize and elevate the role of informal leaders for managing change and resistance to change. Human resource development practitioners need to understand the strategic goals of the organization, must demonstrate their capacities, establish credibility regarding their operations-related understanding, should emphasize and validate value-added human resource development-related approaches, and take overtly aligned actions toward achieving organizational objectives. Unfortunately, these competencies appear to be rarely taught in human resource development or human resource management programs (Alagaraja & Egan, 2013). Human resource development professionals who are part of organizational strategic intervention have an opportunity to extend and the opportunity for mutual benefit toward shared management interests (Short, Bing, & Kehrhahn, 2003).

In this research, the concept of strategy-development connectivity is defined as firm commitment for integrating, sharing and transferring the goal, mission, vision, planning and implementation of the business to human resource development system, practices, and policies (Alagaraja & Egan, 2013; Deb, 2010) for people to work efficiently and to gain competitive advantage (Huda et al., 2007).

Several research studies have mentioned that strategy-development connectivity is an important source of organizational performance. Strategic human resource development can contribute to business performance: building organizational capabilities, improving employee satisfaction, shaping customer and shareholder satisfaction (Yeung & Berman, 1997), gaining competitive advantage, and business success (Pattanayak, 2003). Moreover, human resource development can help to create a source of sustained competitive advantage, especially when they are aligned with a firm's competitive strategy (Singh, 2011). Therefore, a firm with strategy-development connectivity cues in human resource development capability that will be able to attain greater employee commitment, operational development, business productivity, firm competitiveness and firm success. Thus, the hypotheses are proposed as follows:

Hypothesis 4a: Strategy-development connectivity is positively related to employee commitment.

Hypothesis 4b: Strategy-development connectivity is positively related to operational development.

Hypothesis 4c: Strategy-development connectivity is positively related to business productivity.

Hypothesis 4d: Strategy-development connectivity is positively related to firm competitiveness.

Hypothesis 4e: Strategy-development connectivity is positively related to firm success.

Innovation Creativity Focus

Human resource development has an important role in conveying that innovation should be treated as an organic process by key stakeholders. It can support innovation for organizational operations (Ehlen et al., 2013). Innovation is the ideas, practices, or objects that were perceived of as new by an individual or other unit of adoption (Rogers, 1995). Innovation also means a deliberate and radical change in existing products and processes for the organization to achieve a competitive advantage over the competitors (Leede & Looise, 2005). Innovation is widely recognized to be critical for sustaining the competitive advantage of firms and industries and at the regional and national levels. The critical role of innovation, and in particular, innovation's role, in generating creative destruction and subsequent economic growth was emphasized by the evolutionary economist (Sheehan et al., 2013). The ability of employees to create new knowledge, in terms of both products and of services, in order to maintain their market value, is crucial. This emphasis on permanent innovation transfers the workplace into a setting for learning and innovation (Billet, 2008; Van Woerkom & Poell, 2010). In dynamic and sometimes chaotic organizations, employees need to have more than average competences to innovate (Cozijnsen & Vrakking, 2013; Weick & Quinn, 1999). In order to increase the success rate of innovation, it seems vital to acquire expertise on how professionals in workplaces product knowledge within innovation groups, what problems they face, and how they can improve their ability to realize successful innovations (Ehlen et al., 2013).

The concept of knowledge productivity is based on the idea that knowledge is a competence linked to a person (Ehlen et al., 2013). Knowledge needs to be understood as the potential for action that not only depends upon the stored information, but also on the person interacting with it (Malhotra, 2000). Becoming knowledge-productive can be seen as acquiring new skills and attitudes as part of a personal competence. Knowledge productivity refers to the competence of individuals and groups to gradually improve and radically innovate in operating procedures, products and services (Ehlen et al., 2013). This process entails tracing relevant information, using this information to develop new abilities, and applying these abilities to improvement and innovation (Kessels, 2004). The concept of knowledge productivity includes the creation of knowledge products separate from the creation of personal abilities (Kessels,

Verdonschot, & De Jong, 2011). Moreover, an individual should have opportunities to use experience and knowledge to participate in organizational decision-making (Armstrong & Foley, 2003). Improvements or innovations may be of great economic value, but the most sustainable value lies in the abilities of professionals to generate such improvements and innovations in the future (Kessels, 2001). Innovating in products and services presuppose sharing knowledge in order to create something new. This process of sharing knowledge by which new knowledge is created within the workplace (Kessels, 2001) is knowledge productivity.

In this research, innovation creativity focus is based on the concept of knowledge productivity that enhance acquiring new skills and attitudes as part of a personal competence (Ehlen et al., 2013) in the operating procedures of sharing information and knowledge (Kessels, 2001). It entails tracing relevant information, using this information to develop new abilities, and applying these abilities for improvement and innovation (Kessels, 2004). It includes opportunities to use knowledge from the experience of employees to participate in organizational decision-making (Armstrong & Foley, 2003). Therefore, innovation creativity focus in this research is defined as the enhancement of an organization in generating new information, knowledge and experiences of employee and organizations for improving operational process in those organizations (Armstrong & Foley, 2003; Ehlen et al., 2013; Kessels, 2001; 2004).

Several research studies mentioned that innovation creativity focus is an important source of organizational performance. Knowledge productivity presumes a stimulating work environment with good relationships between employees. Creating a powerful learning environment should therefore be seen as an important field of action for human resource development (Kessels, 2004). Social capital has a positive relationship on employee commitment (Yen, Campbell, Irianto, Zulyusri, & Fadilah, 2014). Innovations tend to be more sustainable if professionals further develop these new abilities into resources for further action (Verdonschot, 2009). Intangible resources, like the capability to innovate or being innovative, are key drivers of competitive advantages in many international and global markets (Cho & Pucik, 2005; Hitt, Hoskisson, & Kim, 1997; Stock & Zacharias, 2011; Vincent, Bharadwaj, & Challagalla, 2004). It also is fundamental to business performance, growth, and ultimately business success (Chamberlin, Doutriaux, & Hector, 2010; Cho & Pucik, 2005; Dervitsiotis, 2011). Process innovation is a positive stimulation for productivity (Daveri & Parisi, 2015), and it is a way of competitiveness in an organization (Sedlakova, 2015). Therefore, a firm with innovation creativity focus cues on human resource development capability and will be able to attain greater employee commitment, operational development, business productivity, firm competitiveness and firm success. Thus, the hypotheses are proposed as follows:

Hypothesis 5a: Innovation creativity focus is positively related to employee commitment.

Hypothesis 5b: Innovation creativity focus is positively related to operational development.

Hypothesis 5c: Innovation creativity focus is positively related to business productivity.

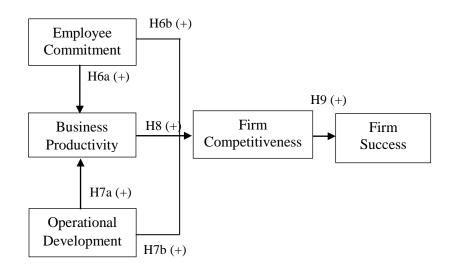
Hypothesis 5d: Innovation creativity focus is positively related to firm competitiveness.

Hypothesis 5e: Innovation creativity focus is positively related to firm success.

<u>The Relationships among the Consequences of Human Resource Development</u> <u>Capability</u>

This section examines the relationships among the consequences of human resource development capability consisting of employee commitment, operational development, business productivity, firm competitiveness and firm success. The literature review on the definition of each construct and purposed hypotheses are discussed below.

Figure 3: The Relationships among Employee Commitment, Operational Development, Business Productivity, Firm Competitiveness and Firm Success



Employee Commitment

The concept of employee commitment is the attitude of the employee that thinks, feels and recognizes its commitment to achieving a corporate objective (Podsakoff & MacKenzie, 1994). Allen and Meyer (1990) defined that employee commitment is relationship of satisfaction, pride and the commitment of employees towards achieving corporate goals. Employee commitment is the behavior of the employee that is dedicated to working for the organization and the importance of the organization's objectives. Thus, employee commitment refers to an organization employee who behaves partially as a members is very proud of helping the organization to achieve the objectives (Meyer, Paunonen, Gellatly, Goffin, & Jakson, 1989). This helps both the employee and the organization to improve their skills which, in turn, improves the productivity of the organization and the employee. An employee who is involved completely in their work is said to have great organizational commitment since it will make them become loyal to the company and will commit themselves to the organization automatically in all aspects. This results in greater improvement in their career as well as in productivity (Deepa, Palaniswamy, & Kuppusamy, 2014). Employee commitment affects human capital by leading to an increased emphasis on

general knowledge, skill and ability within an industry, and affecting a firm's abilities to develop the competitive ability of the firm (Kwantes, 2007).

Previous research showed that the operational outcome in terms of employee commitment leads to greater organizational outcome in terms of productivity (Jiang et al., 2012). Employee commitment has a mediating role between human resource management and business productivity (Deepa et al., 2014). Employee commitment also leads to improved firm competitiveness (Kwantes, 2003; 2007; Vandenberghe, Bentein, & Stinglhamber, 2004). Therefore, the concept of employee commitment in this research has a significant relationship with business productivity and firm competitiveness. As a consequence, the research hypotheses are proposed as follows:

Hypothesis 6a: Employee commitment is positively related to business productivity.

Hypothesis 6b: Employee commitment is positively related to firm competitiveness.

Operational Development

Operations management is an area of management concerned with designing and controlling the process of production and redesigning business operations in the production of goods or services. It involves the responsibility of ensuring that business operations are efficient in terms of using as few resources as needed and effective in terms of meeting customer requirements. It is concerned with managing the process that converts inputs (in the form of raw materials, labor and energy) into outputs (in the form of goods and/or services) (Kau & Loh, 2006; Spreng, Harrel, & Mackoy, 1995; Swanson & Kelley, 2001). Operational development is conceptualized, based on the concept of process improvement of operational management literature. It is an operational teams' ability to use a process perspective and structured methods to continuously improve operational activity (Yang, Lee, & Cheng, 2015). There are three dimensions of operational development framework: firstly, continuous improvement concern for ongoing activities aiming to enhance firm performance through focused incremental changes in the process (Anand, Ward, Tatikonda, & Schilling, 2009; Yang



et al., 2015). Process management is concerned with the view that firms consist of interrelated and repetitive processes (Peng, Schroeder, & Shah, 2008). Also structured methods are concerned with implementation of improvement projects that follow specific steps for problem identification, diagnosis, and solution-generation, and implementation (Choo, Linderman, & Schroeder, 2007).

Therefore, operational development in this research is defined as a process of improvement in an organization of continuous activity, process management, and structured methods for problem identification, diagnosis, solution, generation, and implementation (Anand et al., 2009; Choo et al., 2007; Yang et al., 2015).

Operational development is related to problem-solving skills, actions for enhancing performance, and reliable methods. It also displays the common characteristics of other capabilities such as knowledge and skill (Schreyogg & Kliesch-Eberl, 2007). Moreover, operational development is related to change in productivity and profit (Patterson, West, & Wall, 2004). It also is has effects on short and long-term firm competitiveness and performance (Birdi et al., 2008). Therefore, the concept of operational development in this research has a significant relationship with business productivity and firm competitiveness. As a consequence, the research hypotheses are proposed as follows:

Hypothesis 7a: Operational development is positively related to business productivity.

Hypothesis 7b: Operational development is positively related to firm competitiveness.

Business Productivity

The productivity concept relates to efficiency and effectiveness, which is equal to performance or profitability, and features productivity such as time, quality and value creation (Oeij, Looze, Ten Have, Van Rhijn, & Kuijt-Evers, 2011). In any organization, productivity is considered from the proportion of outputs and inputs, in which input includes labor, capital, and resources; while outputs may be defined as physical volumes (e.g., product volumes) or financial outcomes (e.g., profit or added value) (Oeij

et al., 2011). The many ways to improve organizational productivity are described as output increases at a constant input; input decreases at a constant output; output increases and input decreases; output and input increase with the increase of proportionally less input, and input and output decrease with the decrease of proportionally less output (Oeij et al., 2011). Another definition of productivity is the maximizing of resource utilization, manpower, cost reduction and employee satisfaction (Khanmohammadiotaqsara, Khalili, & Mohseni, 2012). Regarding the productivity literature, the definition of business productivity as the ability of the business to operate efficiently is indicated by the proportional inputs or economic resources (e.g., material, energy, time and use of labor) and is less relative to the proportional outputs (e.g., product volume or product quality). The firm is able to improve productivity by increasing the proportion of output to input that is likely to attain the firms' objectives and goals. The way of improving efficient operations includes reducing material, labor, energy and time in the working process while maintaining constant output, or increasing output while maintaining constant input (Oeij et al., 2011).

Therefore, business productivity in this research is defined as the efficiency and effectiveness of business in using any resources and outcomes including time, quality, value creation; or proportion of input (labor, capital and resource) and output (product volumes or financial outcome) (Oeij et al., 2011).

Higher productivity produces more output by providing the same level of input; on the other hand, it produces the same output by providing a lesser level of input (Halkos & Tzeremes, 2007). At the national level, productivity is a key factor that is related to economic growth. Similarly, at the firm level, high productivity is the important factor for better performance, successful competition and firm survival (Oeij et al., 2011). The prior research finds that the intangible assets including capabilities, skills, and know-how can increase productivity; and finally, productivity increases firm performance (Halkos & Tzeremes, 2007). The productivity of labor can commonly improve a competitiveness of the firm based on a unit of the manufacture factor (Chaudhuri & Ray, 1997; Latruff, 2010; Tanase, 2011). Productivity growth is vital for building competitiveness at the international and domestic level (Balakrishnan & Pushpangadan, 1998; Sehgal & Sharma, 2011). Productivity performance is an important determinant for competitiveness of an industry and the firm (Sultan & Jain, 2016). Therefore, the concept of business productivity in this research has a significant relationship with firm competitiveness. Consequently, the research hypothesis is proposed as follows:

Hypothesis 8: Business productivity is positively related to firm competitiveness.

Firm Competitiveness

In firm operations, the company may use a business strategy (cost leadership, differentiation, focus or niche) to achieve competitive advantage (Porter, 1980). Cater and Pucko (2005) have attempted to identify the basic forms of competitive advantage and analyze the link between these forms of competitive advantage and firm performance. The results indicated that firms which use both strategic differentiation and cost leadership are more successful than firms that use only the strategic one. Moreover, the results also show that a stronger competitive advantage in any of the discussed forms is reflected in greater firm performance. The competitive advantage is the ability of the organization over a competitor who cannot imitate. Otherwise, a competitor needs time to adapt long before in order to emulate the ability of the organization management system and image, or the reputation of the organization. Firm competitiveness includes maintaining a highly skilled employee who has advantages and is possessed by a capability above other firms in the industry (Abushaiba & Zainuddin, 2012).

Four characteristics of competitiveness consist of being long-term oriented, controllable, relative and dynamic (Man, Lau, & Chan, 2002). The long-term oriented characteristic emphasizes long-term performance. The controllable characteristic relates to the different resources and abilities by which firms are able to manage. The relative characteristic means the consideration of the firms' competitiveness by comparing them to other competitors in the same industry. The dynamic characteristic refers to the dynamic renovation of competitiveness by creating new forms of competitive advantage such as quality, speed and service.

In this research, firm competitiveness refers to the readiness of corporate management over the competitors in terms of quality, price, cost, image and reliability (Man et al., 2002). It includes maintaining a highly-skilled employee who has advantages, and is possessed by a capability above other firms in the industry (Abushaiba & Zainuddin, 2012).

Prior research indicates that competitive advantage enhances firm performance (Abushaiba & Zainuddin, 2012; Intarapanich & Ussahawanitchakit, 2011; Laonamtha, Ussahawanitchakit & Boonlua, 2013; Zhou, Brown, & Dev, 2009). Firms need to increase quality management that focuses on a core business process, social relationship, collaboration with competitors and partners (Loch, Chick, & Huchzermeier, 2007), or a cooperative network (Álvarez, Marin, & Fonfría, 2009). Therefore, firms concentrate on knowledge security (Pearce, 1999). Firms emphasize the adjustment of the business environment within the industry, such as in launching technology innovation products to the marketplace. It provides faster product cycles presaging new product variants, faster product obsolescence linked to intensified customers' needs, and increasing sustainable consumption (Sonntag, 2000). Hence, business competitiveness is likely to affect achievement, which leads to firm success. As a consequence, the research hypothesis is proposed as follows:

Hypothesis 9: Firm competitiveness is positively related to firm success.

Firm Success

Success is the result of the right formula combination of strategies and the implementation of activities to achieve strategic objectives. While firm performance closely means firm success, it is represented by the growth rates of sales, profit, market share (Bartb, 2003) and efficiency (productivity, return on equity and net profit) (Davies & Walters, 2004). Therefore, this research proposes that firm success refers to the comprehensive results of a firm which is represented by goal achievement such as in the growth rates of sales, profit and market share; but with the opposite, there is a decreased rate of potential employee turnover.

Moreover, Chalatharawat and Ussahawanitchakit (2009) pointed out a firm's success as a potential that is derived from the attainment of a firm's objective, which is

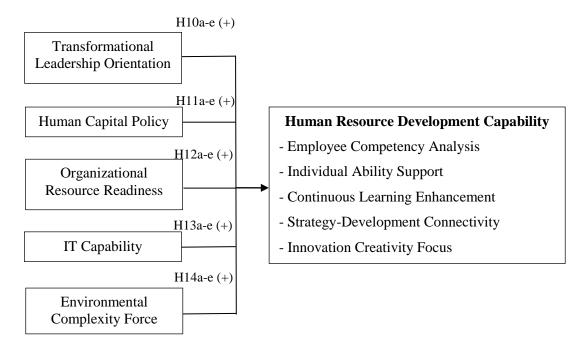
the overall performance of four main perspectives: financial, customers, internal business processes, learning, and growth. Likewise, Cadez and Guilding (2008) argued that firm success dimensions are measured from customer satisfaction, return on investment, product quality improvement, sales volume, market share and profitability. Chatman and Barsade (1995) defined that organizational success is associated with strategic capabilities which need to be managed for firm performance or survival in extremely competitive states and their study presents that organizational success is connected with its strategies, a capability which needs to be accomplished for firm performance or survival among highly competitive situations. Hence, firm success implies the output of implementing human resource development capability and its consequences.

The Relationships among Human Resource Development Capability and its Antecedents of Transformational Leadership Orientation, Human Capital Policy, Organizational Resource Readiness, IT Capability, Environmental Complexity Force

This section presents the influence of proposed antecedents of human resource development capability. With regard to the contingency theory, this research proposes transformational leadership orientation, human capital policy, organizational resource readiness, IT capability and environmental complexity force as the significant antecedents of human resource development capability dimensions: employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus. Therefore, the aforementioned relationships are illustrated in Figure 4.



Figure 4: The Relationships among Transformational Leadership Orientation, Human Capital Policy, Organizational Resource Readiness, IT Capability, Environmental Complexity Force and Human Resource Development Capability



Transformational Leadership Orientation

The concept of transformational leadership is a focus on leaders and the motivation to change and improve the performance of organizations (Avolio, Zhu, Koh, & Bhatia, 2004). In this study, transformational leadership orientation refers to leadership behavior focused on charisma or the role model leader to employees (Waldman, Ramirez, House, & Puranam, 2001). It is also leaders who motivate the inspiration of employees (Bass, 1985), stimulate the intellect of subordinates (Bass & Avolio, 1989) and consider individual employee's problem (Bass, 1985).

Pearce and Conger (2003) suggested that transformation leadership is focused on the ability of leaders to influence change toward best attitude to the team and its members in order to work effectively. Pearce, Yoo and Alavi (2004) found that transformational leadership is oriented to changing the behavior of leaders to work as a team and achieve efficient organization. Chen and colleagues (2012) suggested that transformational leadership is a form of leadership that focuses on the utility of the team members and achieves goals. Howell and Frost (1989) suggested that transformational leadership orients the employee toward a positive attitude about learning and training that can lead to operational efficiency. Barling, Weber and Kelloway (1996) found that transformational leadership is a leadership that focuses on the satisfaction of employees with the training intention that leads to a positive attitude which is shared between subordinates and superiors. Hassan, Fuwad and Rauf (2010) suggested that a transformational leadership role is the focus of the training to motivate employees to work more efficiently. Levac (2008) suggested that transformational leadership considers changes about gender and other forms of equality, because it can modify to ensure that it can respond the enterprise. Transformational leadership has moderated a perceived HRM of individual levels of employees (Vermeeren, 2014). Moreover, transformational leadership is a source of innovativeness in an organization (Raj & Srivastva, 2016) and it also applies a strong influence to an employee's creativity (Gumusluoglu & Ilsev, 2009).

Based on the literature review above, transformational leadership orientation has the potential capability to enhance five dimensions of human resource development capability that consist of employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus. As a consequence, the research hypotheses are proposed as follows:

Hypothesis 10a: Transformational leadership orientation is positively related to employee competency analysis.

Hypothesis 10b: Transformational leadership orientation is positively related to individual ability support.

Hypothesis 10c: Transformational leadership orientation is positively related to continuous learning enhancement.

Hypothesis 10d: Transformational leadership orientation is positively related to strategy-development connectivity.

Hypothesis 10e: Transformational leadership orientation is positively related to innovation creativity focus.

Human Capital Policy

Human capital has a diverse and extensive means. Both similar and different meanings, such as that of human capital, are concerned with education, training, and health (Schultz, 1998). Human capital is a unit-level resource that is created from the emergence of individuals' knowledge, skills, abilities, or other characteristics (KSAOs) (Ployhart & Moliterno, 2011). Scholars have proposed guidelines for the major components of human capital including knowledge, skills and abilities of employees (Becker, 1964). Human capital is an ability of individuals in applying solutions to meet the needs of the customers, attributes, and competency mindsets (Stewart & Ruckdeschel, 1998). Human capital is about performance, attitude and cognitive abilities (Roos, Edvinsson, & Dragonetti, 1998). Human capital is the talent, knowledge, skills and experiences of the employee and the manager. Human capital includes knowledge, skills, innovation and the ability of people to manage. Human capital includes values culture, and the philosophy of the organization (Edvinsson & Malone, 1999). Moreover, human capital consists of four aspects. Firstly, ability is a proficiency in a set of activities. Human capital is various forms of work, including components of knowledge, skills and talents. Secondly, behavior is how an expression can be observed that affects the success of the work. Thirdly, efforts are mental and physical resources with the aim to raise awareness and specific destinations. Fourthly, the time of an investment in human capital includes the number of hours per day in a single year, or during the day or year (Davenport, Carr, & Bibby, 2002). It also found that human capital is deeply rooted and cannot be separated from knowledge, skills or experience. It is divided into groups and human capital skills in action such as skills in gathering information, information processing communication skills, experience, knowledge, social skills and perspectives on values, beliefs and attitudes (Dess & Picken, 1999). Human capital in the period from 2000 onwards means that it is related to know-how in the ability, skills and expertise of the organization (Dzinkowski, 2000).

A firm's policy will highlight its importance in the context of the broad organizational mission and agenda (Whitmarsh, 2009), and it also seems to provide guidelines and set standards about what is generally acceptable and not acceptable in terms of behavior, and what is to be done in certain situations. Where there is a breach of standards of conduct or performance, the organization will have informal or formal procedures to correct such a breach (Bailey, 2011). It has a positive relationship with employee behavior (Norton, Zacher, & Ashkanasy, 2014). The goal of human capital should be having people throughout the firm committed to the strategic agenda and believing that human capital policy is an essential ingredient of the success of an organization. Therefore, in this research, human capital policy is defined as placing an important of an organization in knowledge, skill, ability and other characteristic of employees in the organization. There is a wide range of policy that is relevant to the human resource practitioner (Bailey, 2011).

Based on the literature review above, human capital policy has the potential capability to enhance five dimensions of human resource development capability that consists of employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus. As a consequence, the research hypotheses are proposed as follows:

Hypothesis 11a: Human capital policy is positively related to employee competency analysis.

Hypothesis 11b: Human capital policy is positively related to individual ability support.

Hypothesis 11c: Human capital policy is positively related to continuous learning enhancement.

Hypothesis 11d: Human capital policy is positively related to strategydevelopment connectivity.

Hypothesis 11e: Human capital policy is positively related to innovation creativity focus.

Organizational Resource Readiness

This resource is a tool for considering strategic resources available to a business. Resources include all firm assets, capabilities, organizational processes,

attributes, information, experience, knowledge and technology. In a resource-based perspective, resources can be tangible, intangible and personnel-based (Grant, 1991). Likewise, these abilities comprise at least three dimensions: physical assets, technologies and skills required to use them; human resources and organizational capabilities such as culture and values; and the intangible resources of reputation and radical expertise. However, if the organization has the resources in readiness and potentiality, this advantage will support the firms to create new opportunity. Resource readiness refers to an organization's ability to allocate the existence of an organization's resources to maximize benefits, and the adequacy of a firm's resource can compete with competitors (Tzokas, Saren, & Brownlie, 1997). In this research, organizational resource readiness is defined as the fruitfulness of both tangible and intangible factors for supporting the work of firm processes to achieve organization targets (Barney, 1991; Ray, Barney, & Muhanna, 2004). In addition, Takeno and colleagues (2001) indicate that in utilizing the shared resource, the updated information should also be gained and shared by processes including information-sharing, resource-sharing, techniques and know-how about sharing and opportunity-sharing. Organizational resource readiness has been shared over the firm where the capability to create new products, new services and new processes will increase (Kratzer, Gemunden, & Lettl, 2008).

Based on the literature review above, organizational resource readiness has the potential capability to enhance five dimensions of human resource development capability that consist of employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus. As a consequence, the research hypotheses are proposed as follows:

Hypothesis 12a: Organizational resource readiness is positively related to employee competency analysis.

Hypothesis 12b: Organizational resource readiness is positively related to individual ability support.

Hypothesis 12c: Organizational resource readiness is positively related to continuous learning enhancement.

Hypothesis 12d: Organizational resource readiness is positively related to strategy-development connectivity.

Hypothesis 12e: Organizational resource readiness is positively related to innovation creativity focus.

Information Technology Capability

In a rapidly changing environment, firms must develop and use new technologies in order to adapt to new environmental opportunities (Karim & Mitchell, 2000). Information technology capability or IT capability refers to the ability of a firms' innovation technology based on implementation or physical infrastructure and other information technology support (Mark & Su, 2010), the achievement of information system implementation (set of interrelated components used to collect, process, store and disseminate information to support decision-making, analysis and management controls in an organization) (Coulter, 2002), and integration and utilization of data from a common database for generating information for operations and decision making (Chapman, 2005). New ways of operating become more interesting to achieve the goals of a firm. Especially, technological learning has an important role in enabling organizations to generate new knowledge and improve capabilities and skills that can lead to accomplishment (Chaikambang & Ussahawanitchakit, 2012). IT capability has three dimensions that consist of IT knowledge, IT operations and IT infrastructure (Turulja & Bajgoric, 2016).

Accordingly, technology learning enhances the capacity of effective action in the market and it is a major force for technology dynamics and change (Wene, 2007). Capabilities of technology learning can create business growth and new applications can develop new lines of business. Moreover, technological capability is an organization's ability to mobilize and deploy computer-based technologies (for example hardware, software, network-to-data communication, soft technologies, or advance management practice) for operational activities such as strategic cost management in a wide variety of industries. Information technology changes the role of the HR function (Steijn & Van Den Muyzenberg, 2012). Even if it is possible to analyze IT capability of firms individually, IT has become an integral part of all business processes, so it is often seen as an integral part of all other firms' capabilities. IT can be used to develop competitive products or services as well as to improve decision making processes. It is expected from IT to quicken and improve HR-related administrative, operational and planning decisions (Broderick & Boudreau, 1991). Empirical research shows that IT capability has a significant relationship with human resource management capability (Yurulja & Bajgoric, 2016).

Based on the literature review above, IT capability has that potential capability to enhance five dimensions of human resource development capability consisting of employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus. As a consequence, the research hypotheses are proposed as follows:

Hypothesis 13a: IT capability is positively related to employee competency analysis.

Hypothesis 13b: IT capability is positively related to individual ability support.

Hypothesis 13c: IT capability is positively related to continuous learning enhancement.

Hypothesis 13d: IT capability is positively related to strategy-development connectivity.

Hypothesis 13e: IT capability is positively related to innovation creativity focus.

Environmental Complexity Force

Environmental uncertainty changes in external variables affect the activity of the company, which frequently involves greater difficulty in predicting the future and greater improbability surrounding relationships with suppliers. Complex environments contain many external variables that must be taken into consideration (Gonzalez-Benito, Da Rocha, & Queiruga, 2010). Environmental complexity is a function of the number of external components with which the firm must have interest. It is a function of heterogeneity, dissimilarity, or diffusion among them and it is a function of the sophisticated or technical knowledge required to interact effectively with them (Cannon & John, 2007). In addition, environmental complexity positively moderates the effects of lean procedures and gains on performance (Azadegan, Patel, Zangoueinezhad, & Linderman, 2013). However, this complexity arises in part from an exponential increase in organizational information processing capabilities, an increasingly dynamic and global business environment, and growing amounts of information about both the content and structure of this environment (Satish, 1997). However, complexity relates to the ability to forecast the effects of environmental trends of the firm, the ability to examine the effects of organizational decisions, and the utility of environmental information in expectations which affect decision-making (Boyd & Fulk, 1996).

In this research, environmental complexity force focuses on an organization's complex operations with many factors for deliberate, considerable and new information to process. The firm must capitalize on opportunities in the environment while avoiding threats. Environmental complexity force is defined as the level of variation in business conditions that has ambiguity and instability or heterogeneity of external events that are involved with the firm potential to perceive continuously to explain things, rapid changes and adaptation to effectively cope with change (Nicolau, 2005).

Based on the literature review above, environmental complexity force has the potential capability to enhance five dimensions of human resource development capability that consist of employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus. As a consequence, the research hypotheses are proposed as follows:

Hypothesis 14a: Environmental complexity force is positively related to employee competency analysis.

Hypothesis 14b: Environmental complexity force is positively related to individual ability support.

Hypothesis 14c: Environmental complexity force is positively related to continuous learning enhancement.

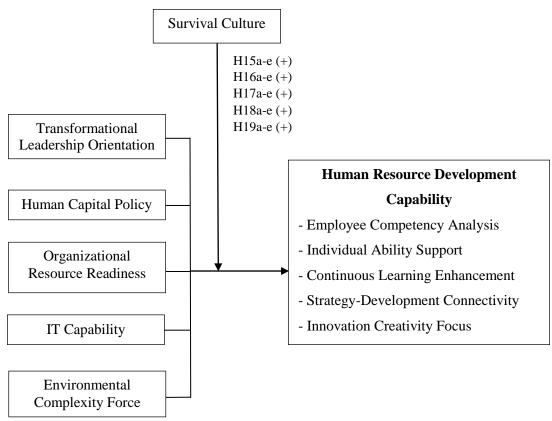
Hypothesis 14d: Environmental complexity force is positively related to strategy-development connectivity.

Hypothesis 14e: Environmental complexity force is positively related to innovation creativity focus.

The Moderator of Human Resource Development Capability

This section illustrates the moderating effects of survival culture on the relationship between human resource development capability and its antecedents as in Figure 5.

Figure 5: The Moderating Role of Survival Culture on the Relationships among Human Resource Development Capability, Transformational Leadership Orientation, Human Capital Policy, Organizational Resource Readiness, IT Capability and Environmental Complexity Force





Survival Culture

The concept of the survival culture is in the same way, the common practice for the preparation of social, moral values and beliefs for the survival of the organization (Hofstede, 1980). Also, there is an increase in multi-cultural and multigenerational employees and contractors in the workplace (McCray, 2009). Japan's social culture is a sample of a survival norm that requires its people to work hard. Japannese people have a sence of crisis over "how to survive" and it has prompted them to work hard to overcome the crises (Singh, 2011). The cultural significance associated with the operations and strategies are needed to increase the efficiency of the project (Jetu & Riedl, 2013). To determine the impact of operation and training one must be willing to participate in a collaborative enterprise (Adekiya & Ibrahim, 2016). In this research, survival culture refers to the practical way of co-operation for the readiness in building strength and worthiness trust for the organizations survival that is adopted from business competition (Hofstede, 1980).

Corporate culture has an effect on the relationship between leadership and the creativity of staff in the banking industry (Erkutlu 2012). Hayton and Cacciotti (2013), on survival culture, promoted creativity and innovation to support the activities of the operators. Survival culture promotes a culture of human capital management related to security, rules and the work of employees (AlHogail, 2015). Survival culture is important to the positive impact of work team on the project's success (Belassi & Tukel, 1996). Kappos & Rivard (2008) have suggested that survival culture affects human resource management and the performance of the project team. The efficiency of cross-cultural training is based on human capital management (Rodrigues, Bu, & Min, 2000). The evaluation of training local managers could be the establishment of corporate culture (Zhao, 2005). The leadership practices that influence the culture of the training of the employees are within the organization (Yap & Webber, 2015).

The readiness of the organization must have a basic understanding of survival culture (Oliver, 2008). Survival culture that supports social security and operations in the organization (Schlienger & Teufel, 2003). Survival cultural is the beliefs and practices in human resource management (Wright, 2013). The principle of equality implies cultural context, beliefs and patterns that are fair to reflect the equality of

cultures (Barry, 2002). The equality of the survival culture is equality as to cultural norms and cultural relations that occur within an organization (He, 2004).

Accordingly, survival culture is likely to promote firms to achieve their five dimensions of human resource development capability that consist of employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus. Therefore, the hypotheses are proposed as follow:

Hypothesis 15a: Survival culture will positively moderate the relationships between transformational leadership orientation and employee competence analysis.

Hypothesis 15b: Survival culture will positively moderate the relationships between transformational leadership orientation and individual ability support.

Hypothesis 15c: Survival culture will positively moderate the relationships between transformational leadership orientation and continuous learning enhancement.

Hypothesis 15d: Survival culture will positively moderate the relationships between transformational leadership orientation and strategy-development connectivity.

Hypothesis 15e: Survival culture will positively moderate the relationships between transformational leadership orientation and innovation creativity focus.

Hypothesis 16a: Survival culture will positively moderate the relationships between human capital policy and employee competence analysis.

Hypothesis 16b: Survival culture will positively moderate the relationships between human capital policy and individual ability support.

Hypothesis 16c: Survival culture will positively moderate the relationships between human capital policy and continuous learning enhancement.

Hypothesis 16d: Survival culture will positively moderate the relationships between human capital policy and strategy-development connectivity.

Hypothesis 16e: Survival culture will positively moderate the relationships between human capital policy and innovation creativity focus.

Hypothesis 17a: Survival culture will positively moderate the relationships between organizational resource readiness and employee competence analysis.

Hypothesis 17b: Survival culture will positively moderate the relationships between organizational resource readiness and individual ability support.

Hypothesis 17c: Survival culture will positively moderate the relationships between organizational resource readiness and continuous learning enhancement.

Hypothesis 17d: Survival culture will positively moderate the relationships between organizational resource readiness and strategy-development connectivity.

Hypothesis 17e: Survival culture will positively moderate the relationships between organizational resource readiness and innovation creativity focus.

Hypothesis 18a: Survival culture will positively moderate the relationships between IT capability and employee competence analysis.

Hypothesis 18b: Survival culture will positively moderate the relationships between IT capability and individual ability support.

Hypothesis 18c: Survival culture will positively moderate the relationships between IT capability and continuous learning enhancement.

Hypothesis 18d: Survival culture will positively moderate the relationships between IT capability and strategy-development connectivity.

Hypothesis 18e: Survival culture will positively moderate the relationships between IT capability and innovation creativity focus.

Hypothesis 19a: Survival culture will positively moderate the relationships between environmental complexity force and employee competence analysis.

Hypothesis 19b: Survival culture will positively moderate the relationships between environmental complexity force and individual ability support.

Hypothesis 19c: Survival culture will positively moderate the relationships between environmental complexity force and continuous learning enhancement.

Hypothesis 19d: Survival culture will positively moderate the relationships between environmental complexity force and strategy-development connectivity.

Hypothesis 19e: Survival culture will positively moderate the relationships between environmental complexity force and innovation creativity focus.

Summary

In this chapter, the conceptual model of human resource development capability and firm success is illustrated. Two principal theories are used to draw the relationships in the conceptual framework; the human capital and contingency theories.

This research has also proposed a set of 19 testable hypotheses to explain the overall relationships among constructs in the conceptual model. These relationships are classified into four different groups which are as the following: the first group is relevant to the linkages among human resource development capability and its consequences, comprised of employee commitment, operational development, business

productivity, firm competitiveness and firm success. The following group holds the relationship among five consequences of human resource development capability. The third group contains the influences of five antecedents on each of five dimensions of human resource development capability, including transformational leadership orientation, human capital policy, organizational resource readiness, IT capability and environmental complexity force. Lastly, the final group relates to the moderating role of survival culture on the relationship between human resource development capability and its antecedents. All proposed hypotheses are presented in Table 3.

| Hypothesis | Description of Hypothesized Relationship | | |
|------------|--|--|--|
| H1a | Employee competency analysis is positively related to employee | | |
| | commitment. | | |
| H1b | Employee competency analysis is positively related to operational | | |
| | development. | | |
| H1c | Employee competency analysis is positively related to business | | |
| | productivity. | | |
| H1d | Employee competency analysis is positively related to firm | | |
| | competitiveness. | | |
| H1e | Employee competency analysis is positively related to firm success. | | |
| H2a | Individual ability support is positively related to employee | | |
| | commitment. | | |
| H2b | Individual ability support is positively related to operational | | |
| | development. | | |
| H2c | Individual ability support is positively related to business productivity. | | |
| H2d | Individual ability support is positively related to firm competitiveness. | | |
| H2e | Individual ability support is positively related to firm success. | | |
| НЗа | Continuous learning enhancement is positively related to employee | | |
| | commitment. | | |
| H3b | Continuous learning enhancement is positively related to operational | | |
| | development. | | |

Table 3: The Summary of Hypothesized Relationships



| Hypothesis | Description of Hypothesized Relationship |
|------------|--|
| H3c | Continuous learning enhancement is positively related to business |
| | productivity. |
| H3d | Continuous learning enhancement is positively related to firm |
| | competitiveness. |
| H3e | Continuous learning enhancement is positively related to firm success. |
| H4a | Strategy-development connectivity is positively related to employee |
| | commitment. |
| H4b | Strategy-development connectivity is positively related to operational |
| | development. |
| H4c | Strategy-development connectivity is positively related to business |
| | productivity. |
| H4d | Strategy-development connectivity is positively related to firm |
| | competitiveness. |
| H4e | Strategy-development connectivity is positively related to firm success. |
| H5a | Innovation creativity focus is positively related to employee |
| | commitment. |
| H5b | Innovation creativity focus is positively related to operational |
| | development. |
| H5c | Innovation creativity focus is positively related to business |
| | productivity. |
| H5d | Innovation creativity focus is positively related to firm competitiveness. |
| H5e | Innovation creativity focus is positively related to firm success. |
| Нба | Employee commitment is positively related to business productivity. |
| H6b | Employee commitment is positively related to firm competitiveness. |
| H7a | Operational development is positively related to business productivity. |
| H7b | Operational development is positively related to firm competitiveness. |
| H8 | Business productivity is positively related to firm competitiveness. |
| H9 | Firm competitiveness is positively related to firm success. |

Table 3: Summary of Hypothesized Relationships (continued)

| Hypothesis | Description of Hypothesized Relationship | | | | |
|------------|--|--|--|--|--|
| H10a | Transformational leadership orientation is positively related to | | | | |
| | employee competency analysis. | | | | |
| H10b | Transformational leadership orientation is positively related to | | | | |
| | individual ability support. | | | | |
| H10c | Transformational leadership orientation is positively related to | | | | |
| | continuous learning enhancement. | | | | |
| H10d | Transformational leadership orientation is positively related to strategy- | | | | |
| | development connectivity. | | | | |
| H10e | Transformational leadership orientation is positively related to | | | | |
| | innovation creativity focus. | | | | |
| H11a | Human capital policy is positively related to employee competency | | | | |
| | analysis. | | | | |
| H11b | Human capital policy is positively related to individual ability support. | | | | |
| H11c | Human capital policy is positively related to continuous learning | | | | |
| | enhancement. | | | | |
| H11d | Human capital policy is positively related to strategy-development | | | | |
| | connectivity. | | | | |
| H11e | Human capital policy is positively related to innovation creativity | | | | |
| | focus. | | | | |
| H12a | Organizational resource readiness is positively related to employee | | | | |
| | competency analysis. | | | | |
| H12b | Organizational resource readiness is positively related to individual | | | | |
| | ability support. | | | | |
| H12c | Organizational resource readiness is positively related to continuous | | | | |
| | learning enhancement. | | | | |
| H12d | Organizational resource readiness is positively related to strategy- | | | | |
| | development connectivity. | | | | |
| | | | | | |

Table 3: Summary of Hypothesized Relationships (continued)

| Hypothesis | Description of Hypothesized Relationship | | | | |
|------------|---|--|--|--|--|
| H12e | Organizational resource readiness is positively related to innovation | | | | |
| | creativity focus. | | | | |
| H13a | IT capability is positively related to employee competency analysis. | | | | |
| H13b | IT capability is positively related to individual ability support. | | | | |
| H13c | IT capability is positively related to continuous learning enhancement. | | | | |
| H13d | IT capability is positively related to strategy-development connectivity. | | | | |
| H13e | IT capability is positively related to innovation creativity focus. | | | | |
| H14a | Environmental complexity force is positively related to employee | | | | |
| | competency analysis. | | | | |
| H14b | Environmental complexity force is positively related to individual | | | | |
| | ability support. | | | | |
| H14c | Environmental complexity force is positively related to continuous | | | | |
| | learning enhancement. | | | | |
| H14d | Environmental complexity force is positively related to strategy- | | | | |
| | development connectivity. | | | | |
| H14e | Environmental complexity force is positively related to innovation | | | | |
| | creativity focus. | | | | |
| H15a | Survival culture will positively moderate the relationships between | | | | |
| | transformational leadership orientation and employee competence | | | | |
| | analysis. | | | | |
| H15b | Survival culture will positively moderate the relationships between | | | | |
| | transformational leadership orientation and individual ability support. | | | | |
| H15c | Survival culture will positively moderate the relationships between | | | | |
| | transformational leadership orientation and continuous learning | | | | |
| | enhancement. | | | | |

Table 3: Summary of Hypothesized Relationships (continued)

| Hypothesis | Description of Hypothesized Relationship | | | |
|------------|--|--|--|--|
| H15d | Survival culture will positively moderate the relationships between | | | |
| | transformational leadership orientation and strategy-development | | | |
| | connectivity. | | | |
| H15e | Survival culture will positively moderate the relationships between | | | |
| | transformational leadership orientation and innovation creativity focus. | | | |
| H16a | Survival culture will positively moderate the relationships between | | | |
| | human capital policy and employee competence analysis. | | | |
| H16b | Survival culture will positively moderate the relationships between | | | |
| | human capital policy and individual ability support. | | | |
| H16c | Survival culture will positively moderate the relationships between | | | |
| | human capital policy and continuous learning enhancement. | | | |
| H16d | Survival culture will positively moderate the relationships between | | | |
| | human capital policy and strategy-development connectivity. | | | |
| H16e | Survival culture will positively moderate the relationships between | | | |
| | human capital policy and innovation creativity focus. | | | |
| H17a | Survival culture will positively moderate the relationships between | | | |
| | organizational resource readiness and employee competence analysis. | | | |
| H17b | Survival culture will positively moderate the relationships between | | | |
| | organizational resource readiness and individual ability support. | | | |
| H17c | Survival culture will positively moderate the relationships between | | | |
| | organizational resource readiness and continuous learning | | | |
| | enhancement. | | | |
| H17d | Survival culture will positively moderate the relationships between | | | |
| | organizational resource readiness and strategy-development | | | |
| | connectivity. | | | |
| H17e | Survival culture will positively moderate the relationships between | | | |
| | organizational resource readiness and innovation creativity focus. | | | |
| H18a | Survival culture will positively moderate the relationships between IT | | | |
| | capability and employee competence analysis. | | | |

Table 3: Summary of Hypothesized Relationships (continued)

| Hypothesis | Description of Hypothesized Relationship |
|------------|--|
| H18b | Survival culture will positively moderate the relationships between IT |
| | capability and individual ability support. |
| H18c | Survival culture will positively moderate the relationships between IT |
| | capability and continuous learning enhancement. |
| H18d | Survival culture will positively moderate the relationships between IT |
| | capability and strategy-development connectivity. |
| H18e | Survival culture will positively moderate the relationships between IT |
| | capability and innovation creativity focus. |
| H19a | Survival culture will positively moderate the relationships between |
| | environmental complexity force and employee competence analysis. |
| H19b | Survival culture will positively moderate the relationships between |
| | environmental complexity force and individual ability support. |
| H19c | Survival culture will positively moderate the relationships between |
| | environmental complexity force and continuous learning enhancement. |
| H19d | Survival culture will positively moderate the relationships between |
| | environmental complexity force and strategy-development |
| | connectivity. |
| H19e | Survival culture will positively moderate the relationships between |
| | environmental complexity force and innovation creativity focus. |

Table 3: Summary of Hypothesized Relationships (continued)

CHAPTER III

RESEARCH METHODS

The previous chapter illustrates a comprehensive review of relevant literature detailing human resource development capability, theoretical foundation, antecedents, consequences, moderators and the hypothesis development. Consequently, this chapter demonstrates the research methods that help to clarify the understanding of the hypothesis testing process. Thus, this chapter is organized into four sections as follows. Firstly, the sample selection and data collection procedures, including population and sample, data collection and test of non-response bias are detailed. Secondly, the variable measurements are developed. Thirdly, the instrumental verifications, including test of validity and reliability, and the statistical analysis are presented. Finally, the table of summary of definitions and operational variables of constructs is included.

Sample Selection and Data Collection Procedures

Population and Sample

Previous research mainly focuses on high technology or manufacturing industries when discussing the importance of human resource management (Zacharatos et al., 2007). The auto parts industry in Thailand is selected as the population of this research. In order to illustrate the research phenomenon, a list of 618 auto parts firms in Thailand are provided by the Thai Auto Parts Manufacturers Association (www.thaiautoparts.or.th, accessed December 2, 2016). According to Krejcie and Morgan (1970), the required sample size to be a representative of this auto parts industry in this research is 237, which is a minimum required sample size. However, previous research suggests that the average response rate of the mailed questionnaire survey is a range between 15 and 20 percent (Aaker, Kumar, & Day, 2001; Menon, Bharadwaj, Adidam, & Edison, 1999). Therefore, oversampling is needed to ensure a minimum sample size (Bartlett II, Kptrlik, & Higgins, 2001). To maximize the possibility of a response rate, this research determines that 1,185 firms adequate for a sampling frame (237 x 5); however, this number exceeds the total population. As a result, this research finally uses 618 firms as a sample population.

According to the questionnaire mailing, 25 surveys were undeliverable because some of these firms had moved to unknown locations. Deducting the underliverable from the original 618 mailed, the valid mailing was 593 surveys. Finally, a collection of 130 responses was received. However, only 128 complete questionnaires were usable for further analysis. The effective response rate was approximately 21.59 percent. The response rate for a mail survey, without an appropriate follow-up procedure, if greater than 20 percent, is considered acceptable (Aaker et al., 2001). Hence, 128 firms are a sufficient sample size for employing multiple regression analysis. The details of the questionnaire mailing are show in Table 4.

| Details | Number |
|-------------------------------|---------|
| Mailed Questionnaires | 618 |
| Undelivered Questionnaires | 25 |
| Valid Questionnaire Mailed | 593 |
| Non-Response Questionnaires | 463 |
| Received Questionnaires | 130 |
| Unusable Questionnaires | 2 |
| Usable Questionnaires | 128 |
| Response Rate (128/593) x 100 | 21.59 % |

Table 4: Details of Questionnaire Mailing

In this research, the chosen industry offers the potential to simultaneously examine five dimensions of human resource development capability. The auto parts industry in Thailand represents highly-competitive industries (Sriboonlue & Ussahawanitchakit, 2014). With respect to the National Science and Technology Development Agency, Thailand is first in ASEAN as to automobiles and auto parts manufacturing, and ninth in the world with the total value in export of more 16.5 billion U.S. dollars in 2015, even though growth declined in 2016 (NSTDA, 2016). Secondly, the auto parts industry in Thailand has an important place in human resource development by the criteria of ISO/TS 16929 that regards human resources (HR) as necessary to: determine the essential competence for individual performing work moving quality of the product, provide training or taking other activities to satisfy these needs, appraising the effectiveness of the activities taken, ensuring that its individuals are conscious of the relevance and importance of their actions and how they contribute to the achievement of the quality objectives, and maintaining appropriate records of education, training, skill and experience (Hekelova & Srdosova, 2009).

Thirdly, the continuous development of automobile technology also has encouraged the auto parts industry to keep moving and innovating. The improvement of engines and the emerging of alternative energies such as liquid petroleum gas (LPG), natural gas vehicles (NGV) and gasohol (E20), have made a huge impact on the auto parts industry. Therefore, the Thai auto parts businesses have played a significant role in helping to increase and expand the Thai economy in terms of economic growth and stability (Panya & Ussahawanitchakit, 2013).

Finally, with regard to globalization, the auto parts businesses in Thailand face the challenge of competition among many competitors, both local and international. Modern automobile manufacturing has initiatives in relationship to its human resource management which is important for greater productivity, competitiveness and success by emphasizing worker involvement (Zacharatos et al., 2007). Therefore, based on the human capital theory, this selected sample is appropriate for the investigation of the human resource development capability phenomena.

Data Collection

The questionnaires are appropriately used to collect data in this research. These are an extensively-used method for large-scale data collection in strategic management and organizational research. The advantage of questionnaire mailing is that a representative sample can be collected from the chosen population in a variety of locations at low cost (Kwok & Sharp, 1998; Pongpearchan & Ussahawanitchakit, 2011). In this research, the questionnaire was directly distributed to the key informants who work as human resource directors and managers of the auto parts businesses industry in

Thailand. Then, the completed questionnaires are directly sent back to the researcher by the prepared return envelopes in order to ensure confidentially.

In this research, a valid and reliable self-administered questionnaire comprises seven sections. In the first section, respondents are requested to provide their personal information such as gender, age, marital status, level of education, work experience, average monthly income, and current position. The second section questions the organizational characteristic; for example, business investment, business entity, business ownership, business location, period of time in business, number of full-time employees, operational capital, the firm's average revenues per year, and labor union. For the third to sixth sections, respondents are canvassed on their perceptions toward human resource development capability, its consequences, antecedents and moderators. Moreover, the Likert five-point interval scale, ranging from 1 = strongly disagree, to 5 = strongly agree, is employed.

To be more detailed, the third section collects the key concepts of human resource development capability dimensions: employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity and innovation creativity focus. The fourth section presents questions concerning the consequences of human resource development capability, including employee commitment, operational development, business productivity, firm competitiveness and firm success. The fifth section includes questions regarding to the antecedents of human resource development capability including transformational leadership orientation, human capital policy, organizational resource readiness, IT capability and environmental complexity force. The sixth section consists of a set of questions in relation to survival culture that affects the relationship between human resource development capability antecedents and human resource development capability. Finally, the seventh section provides an open-ended question to gather key respondent suggestions and opinions.

Test of Non-Response Bias

The testing of non-response bias is the important step before the sample is generalized to the population. Regarding Armstrong and Overton (1977), a chi-square comparison of demographics information (for example firm size, firm age, firm capital,



revenue per year and ownership) between early and late respondents are tested to prevent and assure possible response bias problem. Extrapolation methods have the assumption that subjects who answer later, or require more prodding to answer, are more likely to be treated as non-respondents. If the results of the Pearson chi-square statistics show no statistically significant differences of demographics information between early and late respondents, then there is no non-response bias problem between respondents and non-respondents (Lewis, Hardy, & Snaith, 2013; Rogelberg & Stanton, 2007).

All 128 received questionnaires were divided into two equal groups: the first 64 responses are treated as the early respondents (the first group) and the other 64 responses are treated as the late respondents (the second group). The first group represented the early respondents and the second group represented the late respondents. By employing a chi-square statistic, the differences of organizational demographics in terms of the business investment, business ownership, firm age, number of employees, firm capital, firm revenue, and labor union were compared.

The results are as follows: the business investment (Pearson chi-square = 0.216, p > 0.05), the business ownership (Pearson chi-square = 0.051, p > 0.05), the firm age (Pearson chi-square = 0.758, p > 0.05), the number of employees (Pearson chi-square = 0.553, p > 0.05), the firm capital (Pearson chi-square = 0.203, p > 0.05), the firm revenue (Pearson chi-square = 0.358, p > 0.05), and the labor union (Pearson chi-square = 0.256, p > 0.05). These results provide the evidence that there were no statistically significant differences between two groups at a 95% confidence level. It can be confidently mentioned that non-response bias is not a serious problem in this research (Armstrong & Overton, 1977). The detailed results of the non-response bias test are presented in Appendix B.

Measurements

In measuring each construct in the conceptual model, a multiple-item measurement process is developed. Since constructs are abstracts that cannot be directly measured or observed they should be measured by multiple items (Churchill, 1979). Moreover, using multiple items provide a more extensive range of the content of a conceptual definition and improvement of reliability (Neuman, 2006). In this research, all constructs are transformed into operational variables to gain more accuracy in measuring research constructs. All variables are derived from the definition and previous literature by a five-point Likert scale ranging from 1 = strongly disagree, to 5 = strongly agree. In summary, all operational definitions of each construct which are comprised of the dependent variable, the independent variables, the moderating variable and the control variables, are described below.

Dependent Variable

Firm success. Firm success is represented by the growth rates of sales, profit, and market share; and are linked to strategic capabilities while having a need to be managed for firm performance or survival in an extremely competitive state (Chatman & Barsade, 1995). A firm's success is a potential derived from the attainment of a firm's objective, which is the overall performance of four main perspectives: financial, customers, internal business processes, and learning and growth. Likewise, Cadez and Guilding (2008) argued that firm success dimensions are measured from customer satisfaction, return on investment, product quality improvement, sales volume, market share and profitability. Chatman and Barsade (1995) defined organizational success as that associated with strategic capabilities which need to be managed for firm performance or survival in extremely competitive states; and their study presents that organizational success is connected with its strategies, a capability which needs to be accomplished for firm performance or survival among highly competitive situations. This construct is adapted from Cadez and Guilding (2008) which includes a six-item scale.

Independent Variables

This research consists of 14 independent variables which are separated into three categories; core construct, consequential variables and antecedent variable. Firstly, human resource development capability is the center and core construct of this research. It can be measured through five distinctive attribute dimensions: employee competence analysis, individual ability support, continuous learning enhancement, strategydevelopment capability and innovation creativity focus. These attributes reflect the good characteristics of human resource development capability. The measure of each attribute depends on its definition which is detailed below.

Employee competency analysis. Employee competency analysis is the firm's activities to identify and classify individuals and jobs needing skill or ability. This includes an individual's desire to undertake training for effective human resource development planning (Huda et al., 2014; Price et al., 2010; Rossett, 1987). This construct is developed as a new scale from the definition including a four-item scale.

Individual ability support. Individual ability support is the encouragement of an organization in providing absolute resource to improve the skills of employees and give an opportunity to use prominent employee skill. It includes development of the desire to gain other ability development of employee (Ambrozova et al., 2016; Kennett, 2013). This construct is developed as a new scale from the definition including a fouritem scale.

Continuous learning enhancement. Continuous learning enhancement is firm motivation in self-study, knowledge and experience interchange to facilitate the unceasingly self-development of knowledge, skill and ability of employees (Armstrong & Foley, 2003; Hackman, 1986; Holt et al., 1996; London & Smither, 1999). This construct is developed as a new scale from the definition including a four-item scale.

Strategic-development connectivity. Strategy-development connectivity is firm commitment to integrating, sharing and transferring the gold, mission, vision, planning and implementation of the business to human resource development system, practices and policies (Alagaraja & Egan, 2013; Deb, 2010) for people's efficient work and to gain competitive advantage (Huda et al., 2007). This construct is developed as a new scale from the definition including a five-item scale.

Innovation creativity focus. Innovation creativity focus is the enhancement of organization in generating new information, knowledge and experience of employees and organizations to improve operational process in an organization (Armstrong &

Foley, 2003; Ehlen et al., 2013; Kessels, 2001, 2004). This construct is developed as a new scale from the definition including a four-item scale.

Consequential Variables

The second category is the consequences of human resource development capability, namely, employee commitment, operational development, business productivity and firm competitiveness. The measure of each consequential variable conforms to its definition and relative literatures, and is discussed as follows.

Employee commitment. Employee commitment is a psychological connection between the employee and his or her organization that makes it less likely that the employee will voluntarily leave the organization (Allen & Meyer, 1996; Chaudhuri & Bartlett, 2014). This construct is adapted from Meyer and colleagues (1989) including a four-item scale.

Operational development. Operational development is a process improvement of an organization in continuous activity, process management and structured methods for problem identification, diagnosis, generational solutions, and implementation (Anand et al., 2009; Choo et al., 2007; Yang et al., 2015). This construct is adapted from Yang and colleagues (2015) including a four-item scale.

Business productivity. Business productivity is efficiency and effectiveness, which is equal to performance or profitability, and features productivity such as time, quality and value creation (Oeij et al., 2012). In any organization, productivity is considered from the proportion of outputs and inputs, in which input includes labor, capital and resources; while outputs may be defined as physical volumes (e.g., product volumes) or financial outcomes (e.g., profit or added value) (Oeij et al., 2012). This construct is adapted from Oeij and colleagues (2012), including a four-item scale.

Firm competitiveness. Firm competitiveness refers to the readiness of corporate management over its competitors in terms of quality, price, cost, image and reliability (Man et al., 2002). It includes maintaining a highly-skilled employee who has

advantages and is possessed by a capability above other firms in the industry (Abushaiba & Zainuddin, 2012). This construct is adapted from Abushaiba and Zainuddin (2012), including a four-item scale.

Antecedent Variables

Lastly, the third category is the five antecedents of human resource development capability comprised of transformational leadership orientation, human capital policy, organizational resource readiness, IT capability and environmental complexity force. All antecedent variables align to their definitions and the prior literature. The measure of each variable is discussed as follows.

Transformational leadership orientation. Transformation leadership orientation is the organization's ability that has a leader who encourages and advocates the employees to develop according to organizational objectives (Bass & Avolio, 1989). This construct is adapted from Bass and Avolio (1989), including a four-item scale.

Human capital policy. Human capital is a resource that is created from the emergence of knowledge, skill, ability and other characteristics of people (KSAOs) (Ployhart & Moliterno, 2011). Therefore, human capital policy is important in the context of the broad organizational mission and agenda (Whitmarsh, 2009) that focuses on enhancement and improvement of knowledge, skill, ability and other characteristics of the employees. This construct is developed as a new scale from the definition, including a four-item scale.

Organizational resource readiness. Organizational resource readiness is the fruitfulness of tangible and intangible resources of an organization for supporting the work of organizational processes to achieve a corporate target (Ray et al., 2004). This construct is developed as a new scale from the definition, including a four-item scale.

Information Technology capability. Information technology capability is the ability of a firm's innovation technology based on implementation or physical infrastructure and other information in technology support (Mark & Su, 2010) for

generating information for operations and decision-making (Chapman, 2005). This construct is adapted from Turulja and Bajgoric (2016), including a four-item scale.

Environmental complexity force. Environmental complexity force is the pressure of proliferation and diversity of relevant factors in the environment (Nicolau, 2005). This construct is developed as a new scale from the definition, including a fouritem scale.

Moderating Variable

Drawing on the contingency theory, survival culture is a moderator in this research which moderates the relationship between human resource development capability and its antecedents.

Survival culture. Survival culture refers to the capability of an organization which has co-operated in practice to help survival from environmental difficulties (Hofstede, 1980). This construct is adapted from Hofstede (1980), including a four-item scale.

Control Variables

Two control variables are included in this research. Firm size and ownership are the characteristics that may influence the hypothesized relationships.

Firm size. The size of the plant might be directly related to manufacturing performance (Jayaram, Droge, & Vickery, 1999; Bayo-Moriones & de Cerio, 2001). The number of workers in an organization is representative of business size and is widely used in the literature on management and organization (Bello-Pintado, 2015). Firm size was included as a control variable because a larger firm might have more resources than a smaller firm, which might moderate the relationship between human resource development and firm performance (Ji, Tang, Wang, Yan, & Liu, 2012). Accordingly, firm size is a dummy variable in which 0 means the firm has a number of full time employees less than or equal to 300, and 1 means the firm has a number of full time employees more than 300.

Ownership. There is substantial variation in the way human resources are managed among different ownership types and regions (Ding, Akhtar, & Ge, 2006). Organizational culture and economic conditions play an important role in determining an organization's human resource strategy and practice (Roos, Fernström, & Pike, 2004). The ownership of a manufacturing firm has been related to human resource performance in which company-owned units have a higher human resource management intensity than franchised units, and franchised units have a higher HR performance than company-owned-units (Brand & Croonen, 2010; Chandler & McEvoy, 2000; Kotey & Slade, 2005; Yin & Zajac, 2004). Accordingly, ownership is a dummy variable in which 0 means the firm is a single units and 1 means the firm is a franchised units.

Methods

In this research, most of the constructs in the conceptual model are newlydeveloped. Consequently, the 30 first respondent were used to pre-test method which is appropriately conducted to assert the validity and reliability of the questionnaire. Firstly, the questionnaire was double-checked by a specialist and experienced scholars. Later, the rationale of the pre-test was conducted to check for a clear and accurate understanding of the questionnaire before using real data collection.

Validation and Reliability

Validation. Validity is the degree to which a measure precisely represents the correct and accurate instrument (Hair, Black, Babin, & Anderson, 2010). Especially, the validity testing of measurement in this research accurately confirms the concept or construct of the study. According to Neuman (2006), accuracy occurs if there is a poor fit between the theories the researchers use to describe or analyze the social world and what happens in the real world. This research tested the validity of the measure or series of measures to verify and illustrate the correct concept of the research.

Firstly, content validity is the extent to which the items of the scale are sufficiently reflected in the interrelated theoretical domain (Green, Boissoles, & Boulet, 1988). It refers to the degree to which the essence of the scale represents the construct

being measured (Thoumrungroje, 2013). With regard to the relevant theory and literature review, each of the items in the questionnaire was subjectively assessed by two specialist and related academic experts to ensure the content validity (see also Appendix G).

Secondly, construct validity refers to a set of measured items that actually reflect theoretical latent constructs that those items are designed to measure (Hair, Anderson, Tatham, & Black, 2006). If the scale really reflects and indicates its designated construct, then convergent validity and discriminant validities should be established. Convergent validity demonstrates items that are indicators of a specific construct convergence or share a high proportion of variances in common (Hair et al., 2010). It is the accuracy of a scale in correlating with other scales that are designed to measure the same construct (Thoumrungroje, 2013). Discriminant validity is the extent to which a construct is truly distinct from other constructs (Hair et al., 2010). It is the accuracy of a scale in distinguishing itself from other scales to measure a different construct (Thoumrungroje, 2013). In short, this validity also means that individuallymeasured items should represent only one construct. Therefore, both exploratory factor analysis (EFA) and confirmatory factor analysis (CFA) are used to examine the construct validity of the data in the questionnaire. Moreover, to ensure the construct validity, the size of the factor loading must be greater than the 0.40 cut-off and statistically significant (Nunnally & Berstein, 1994).

In this research, construct validity is illustrated by convergent validity. Convergent validity demonstrated that the item are indicator of a specific construct converge or share a high proportion of variance in common. Therefore, the high values of factor loading were considered in a specific construct. The result found that each item of all variable is loaded on a single factor and the range of factor loading is between 0.705 and 0.927 for EFA, and between 0.679 and 0.960 for CFA. These values are greater than the cut-of score of 0.4 which indicates acceptable construct validity (see Appendix C for more details).

Reliability. Reliability is the degree to which the measurement is trusted and error-free (Hair et al., 2010). In this research, the Cronbach's alpha coefficient was used to test the internal consistency of each construct. Internal consistency is an approach to

evaluate the consistency or reliability within a collection of multiple items that represent the scale (Thoumrungroje, 2013). The coefficient alpha or Cronbach's alpha was employed to estimate the reliability. Accordingly, Cronbach's alpha should be greater than 0.70 to ensure the internal consistency (Nunnally & Bernstein 1994; Hair et al., 2006). The findings of Cronbach's alpha coefficients were between 0.805 and 0.938, which exceeds the acceptable cut-off score. It can be concluded that internal consistency of the entire scale exists in this research (see also Appendix C for more details).

Statistical Techniques

Before hypotheses testing, all of raw data was checked, encoded and recorded in a data file. Then, the basis assumption of regression analysis, such as the normality, linearity, homoscedasticity and multicollinearity was tested. Moreover, the results of assumption testing are shown in Appendix D.

Variance inflation factor. To deal with the multicollinearity problem, this research employs a variance inflation factor (VIF) and a tolerance value as indicators to indicate a high degree of multicollinearity among the independent variables. Regarding Hair and colleagues (2006), if a tolerance value is greater than 0.10, and the VIF is less than 10, then multicollinearity is not a concern (Hair et al., 2010). In this research, an analysis of collinearity statistics indicates that the range of VIF value is between 1.099 and 8.293, which indicates that there is no multicollinearity problem.

Correlation analysis. Correlation analysis was illustrated to test the correlation among all variables and a correlation matrix was provided to examine a bivariatecorrelation and to explore the relationships between the variables and this correlation value which is between equal to 1 and -1. In this research, Pearson correlation analysis was used because the data that was used was interval level and the assumption testing for regression analysis was not ignore. If the variables become highly correlated, the correlation coefficient is greater than 0.8, and shows significance, it is the first indication of a multicollinearity problem (Hair et al., 2010; Homberg, Artz, & Wieseke, 2012). In this research, the factor score of all variables were prepared to avoid the multicollinearity problem. Consequently, the relationships between independent variables are not problem and are shown in Table 6 (chapter four).

Multiple regression analysis. The Ordinary Least Squares (OLS) regression analysis is used to test all postulated hypotheses. Since both dependent and independent variables in this research are categorical data and interval data, OLS is an appropriate method for examining the hypothesized relationships (Hair et al., 2010). As a result, all proposed hypotheses in this research are transformed into eighteen statistical equations. Each equation conforms to the hypothesis development described in the previous chapter. Moreover, the statistical equations are separated into sections as follows:

The first section contains statistical equations examining the relationships among human resource development capability, employee commitment, operation development, business productivity, firm competitiveness and firm success as shown below.

| Equation 1: | ECM | = | $\alpha_1 + \beta_1 ECA + \beta_2 IAS + \beta_3 CLE + \beta_4 SDC + \beta_5 ICF + \beta_6 FS$ |
|-------------|------------|---|--|
| | | | $+ \beta_7 OS + \varepsilon_1$ |
| Equation 2: | OPD | = | $\alpha_2 + \beta_8 ECA + \beta_9 IAS + \beta_{10} CLE + \beta_{11} SDC + \beta_{12} ICF +$ |
| | | | $\beta_{13}FS + \beta_{14}OS + \varepsilon_2$ |
| Equation 3: | BNP | = | $\alpha_3 + \beta_{15}ECA + \beta_{16}IAS + \beta_{17}CLE + \beta_{18}SDC + \beta_{19}ICF +$ |
| | | | $\beta_{20}FS + \beta_{21}OS + \varepsilon_3$ |
| Equation 4: | BNP | = | $\alpha_4 + \beta_{22}ECM + \beta_{23}OPD + \beta_{24}FS + \beta_{25}OS + \varepsilon_4$ |
| Equation 5: | FCP | = | $\alpha_5 + \beta_{26}ECA + \beta_{27}IAS + \beta_{28}CLE + \beta_{29}SDC + \beta_{30}ICF +$ |
| | | | $\beta_{31}FS + \beta_{32}OS + \varepsilon_5$ |
| Equation 6: | FCP | = | $\alpha_6 + \beta_{33}ECM + \beta_{34}ODP + \beta_{35}BNP + \beta_{36}FS + \beta_{37}OS + \varepsilon_6$ |
| Equation 7: | FSC | = | $\alpha_7 + \beta_{38}ECA + \beta_{39}IAS + \beta_{40}CLE + \beta_{41}SDC + \beta_{42}ICF +$ |
| | | | $\beta_{43}FS + \beta_{44}OS + \varepsilon_7$ |
| Equation 8: | FSC | = | $\alpha_8 + \beta_{45}FCP + \beta_{46}FS + \beta_{47}OS + \varepsilon_8$ |



The second section shows statistical equations examining the effects of the antecedent variables on human resource development capability. The influence of survival culture, as a moderator, is also included as shown below.

| Equation 9: EC | CA = | $\alpha_9 + \beta_{48}TLO + \beta_{49}HCP + \beta_{50}ORR + \beta_{51}ITC + \beta_{52}ECF +$ |
|-----------------|---------------------|---|
| | | $\beta_{53}FS + \beta_{54}OS + \varepsilon_9$ |
| Equation 10: EC | CA = | $\alpha_{10} + \beta_{55}TLO + \beta_{56}HCP + \beta_{57}ORR + \beta_{58}ITC + \beta_{59}ECF +$ |
| | | $\beta_{60}SVC + \beta_{61}(TLO * SVC) + \beta_{62}(HCP * SVC) +$ |
| | | $\beta_{63}(ORR * SVC) + \beta_{64}(ITC * SVC) + \beta_{65}(ECF * SVC) +$ |
| | | $\beta_{66}FS + \beta_{67}OS + \varepsilon_{10}$ |
| Equation 11: IA | S = | $\alpha_{11} + \beta_{68}TLO + \beta_{69}HCP + \beta_{70}ORR + \beta_{71}ITC + \beta_{72}ECF + \beta_{71}ITC + \beta_{72}ECF + \beta_{72}ECF + \beta_{71}ITC + \beta_{71}ITC + \beta_{71}ITC + \beta_{72}ECF + \beta_{71}ITC + \beta_{71}I$ |
| | | $\beta_{73}FS + \beta_{74}OS + \varepsilon_{11}$ |
| Equation 12: IA | S = | $\alpha_{12} + \beta_{75}TLO + \beta_{76}HCP + \beta_{77}ORR + \beta_{78}ITC + \beta_{79}ECF + \beta_{79}E$ |
| | | $\beta_{80}SVC + \beta_{81}(TLO * SVC) + \beta_{82}(HCP * SVC) +$ |
| | | $\beta_{83}(ORR * SVC) + \beta_{84}(ITC * SVC) + \beta_{85}(ECF * SVC) +$ |
| | | $\beta_{86}FS + \beta_{87}OS + \varepsilon_{12}$ |
| Equation 13: CI | E = | $\alpha_{13} + \beta_{88}TLO + \beta_{89}HCP + \beta_{90}ORR + \beta_{91}ITC + \beta_{92}ECF +$ |
| | | $\beta_{93}FS + \beta_{94}OS + \varepsilon_{13}$ |
| Equation 14: CI | E = | $\alpha_{14} + \beta_{95}TLO + \beta_{96}HCP + \beta_{97}ORR + \beta_{98}ITC + \beta_{99}ECF +$ |
| | | $\beta_{100}SVC + \beta_{101}(TLO * SVC) + \beta_{102}(HCP * SVC) +$ |
| | | $\beta_{103}(ORR * SVC) + \beta_{104}(ITC * SVC) + \beta_{105}(ECF * SVC)$ |
| | | $+ \beta_{106}FS + \beta_{107}OS + \varepsilon_{14}$ |
| Equation 15: SL |) <i>C</i> = | $\alpha_{15} + \beta_{108}TLO + \beta_{109}HCP + \beta_{110}ORR + \beta_{111}ITC +$ |
| | | $\beta_{112}ECF + \beta_{113}FS + \beta_{114}OS + \varepsilon_{15}$ |
| Equation 16: SL |) <i>C</i> = | $\alpha_{16} + \beta_{115}TLO + \beta_{116}HCP + \beta_{117}ORR + \beta_{118}ITC +$ |
| | | $\beta_{119}ECF + \beta_{120}SVC + \beta_{121}(TLO * SVC) +$ |
| | | $\beta_{122}(HCP * SVC) + \beta_{123}(ORR * SVC) + \beta_{124}(ITC * SVC)$ |
| | | $+ \beta_{125}(ECF * SVC) + \beta_{126}FS + \beta_{127}OS + \varepsilon_{16}$ |
| Equation 17: IC | F = | $\alpha_{17} + \beta_{128}TLO + \beta_{129}HCP + \beta_{130}ORR + \beta_{131}ITC +$ |
| | | $\beta_{132}ECF + \beta_{133}FS + \beta_{134}OS + \varepsilon_{17}$ |



$$Equation 18: ICF = \alpha_{18} + \beta_{135}TLO + \beta_{136}HCP + \beta_{137}ORR + \beta_{138}ITC + \beta_{139}ECF + \beta_{140}SVC + \beta_{141}(TLO * SVC) + \beta_{142}(HCP * SVC) + \beta_{143}(ORR * SVC) + \beta_{144}(ITC * SVC) + \beta_{145}(ECF * SVC) + \beta_{146}FS + \beta_{147}OS + \varepsilon_{18}$$

Where;

| ECA = | Employee Competence Analysis |
|-------|---|
| IAS = | Individual Ability Support |
| CLE = | Continuous Learning Enhancement |
| SDC = | Strategy - Development Connectivity |
| | |
| ICF = | Innovation Creativity Focus |
| ECM = | Employee Commitment |
| OPD = | Operational Development |
| BNP = | Business Productivity |
| FCP = | Firm Competitiveness |
| FSC = | Firm Success |
| TLO = | Transformational Leadership Orientation |
| HCP = | Human Capital Policy |
| ORR = | Organizational Resource Readiness |
| ITC = | IT Capability |
| ECF = | Environmental Complexity Force |
| SVC = | Survival Culture |
| FS = | Firm Size |
| OS = | Ownership |
| α = | Constant |
| β = | Regression Coefficient |
| = 3 | Error Term |



Summary

This chapter summarizes the research methods used in the investigation for this research, from simple selection to data gathering, examining all constructs purposed in the conceptual model, and answering the research questions. To be specific, there are four main parts in this chapter: (1) sample selection and data collection procedures, (2) measurement of variables, (3) verification of the instrument, and, (4) statistical techniques. A total list of 618 auto parts firms in Thailand were provided by the Thai Auto parts Manufacturer Association in Thailand. The key informants completing the questionnaires were the human resource managers or human resource directors. Moreover, a valid and reliable questionnaire is the primary instrument of data collection. This chapter also provides the measurements of each construct in the model, which are based on the existing literature. For multiple regression analysis, testable statistical eighteen, equations are formulated. Finally, a summary of the construct definitions and the operational explanation is given in Table 5.



| Construct | Definition | Operational Variables | Scale Source | | | |
|--------------------|--|---|----------------|--|--|--|
| Dependent variable | | | | | | |
| Firm success | The goal achievement and receive the revenue | The acceptation of customer as professional | Pongpearchan | | | |
| (FSC) | and profit consistence with target; continuously | business, the increasing of sale and revenue, | & | | | |
| | increased in market share, financial and | the increasing of new customer continuously, | Ussahawanitcha | | | |
| | performance; well-known and agreement in | the continuous growth of operation in total. | kit (2011) | | | |
| | business professional. | | | | | |
| | Independent | t variable | | | | |
| Employee | Firm's activities to identification and | Firm has identification and classification of | New scale | | | |
| competency | classification of individual and job need skill or | individual and job need skill or ability and | | | | |
| analysis (ECA) | ability includes individual's desire to undertake | individual's desire to undertake training. | | | | |
| | training for effectively human resource | | | | | |
| | development planning. | | | | | |
| Individual ability | Encouragement of organization in providing | Firm encourage in providing absolute | New scale | | | |
| support (IAS) | absolute resource to improve skill of employee | resource to improve skill of employee and | | | | |
| | and give an opportunity to uses prominent | give an opportunity to uses prominent | | | | |
| | employee skill and includes development on | employee skill and develop them from desire | | | | |
| | desire to other ability development of employee. | to other ability development of employee. | | | | |



| Construct | Definition | Operational Variables | Scale Source |
|--------------|---|--|--------------|
| Continuous | Firm activity in provide the resource and | Firm has activity in provide the resource and | New scale |
| learning | support, guided and coaching by manager | support, guided and coaching by manager and | |
| enhancement | and rewarding employee from use of new | rewarding employee from use of new skills and | |
| (CLE) | skills and knowledge on the job to facilitate | knowledge on the job. | |
| | the unceasingly self-development on | | |
| | knowledge, skill and ability of employee. | | |
| Strategy- | Firm commitment to integrating, sharing and | Firm has integrating, sharing and transferring | New scale |
| development | transferring the gold, mission, vision, | the gold, mission, vision, planning and | |
| connectivity | planning and implementation of the business | implementation of the business. | |
| (SDC) | to human resource development system, | | |
| | practices and policies. | | |



| Construct | Definition | Operational Variables | Scale Source | | |
|------------------|--|--|--------------------|--|--|
| Innovation | Enhancement of organization in generating | Firm encourage to generating new idea, process | New scale | | |
| creativity focus | new information, knowledge and experience | and provide resource to research and | | | |
| (ICF) | of employee and organization to improve of | development new somethink. | | | |
| | operational process in organization. | | | | |
| | Mediating variables | | | | |
| Employee | Organization employee that behaves partially | Employee has citizenship, important in | Adapted from | | |
| commitment | as membership is very proud of helping | organization and want to firm success. | Meyer et al. | | |
| (ECM) | organization to achieve the objectives. | | (1989) | | |
| Operational | Process improvement of organization of | Process improvement in continuous, good | Adapted from | | |
| development | continuous activity, process management | process management and good structured | Yang et al. (2015) | | |
| (OPD) | and structured method for problem | method. | | | |
| | identification and diagnosis and solution | | | | |
| | generation and implementation. | | | | |



| Construct | Definition | Operational Variables | Scale Source | | |
|-------------------------|--|---|-------------------|--|--|
| Business | Business productivity is efficiency and | The proportion input or economic resource | Adapted from Oeij | | |
| productivity | effectiveness, which is equal to performance | (e.g., material, energy, time and labor) less | et al. (2012) | | |
| (BNP) | or profitability and features productivity | relative to the proportion outputs (e.g., product | | | |
| | such as time, quality and value creation. | volume or product quality) | | | |
| Firm | The readiness of corporate management over | Firm has advantage in quality, price, cost, | New scale | | |
| competitiveness | the competitors in terms of quality, price, | image and reliability includes highly skilled | | | |
| (FCP) | cost, image and reliability includes highly | employee. | | | |
| | skilled employee. | | | | |
| | Antecedent variables | | | | |
| Transformational | Leadership behavior that focused on job | Visionary executives in management, can | Adapted from | | |
| leadership | execution help encourages the inspiration | inspire the staff and to encourage people to | Bass & Avolio | | |
| orientation (TLO) | and pay attention to employees in order to | learn to work effectively. | (1989). | | |
| | change and develop occurring in | | | | |
| | organization. | | | | |



| Construct | Definition | Operational Variables | Scale Source | |
|----------------------|---|---|------------------|--|
| Antecedent variables | | | | |
| Human capital | Human capital policy is its importance in the | Perception in the organization in place | Adapted from | |
| policy (HCP) | context of the broad organizational mission | important in improvement in knowledge, skill, | Ployhart & | |
| | and agenda that focus on enhancement and | ability and other characteristic of employee. | Moliterno (2011) | |
| | improvement of knowledge, skill, ability and | | | |
| | other characteristics of the employees. | | | |
| Organizational | The fruitfulness of tangible and intangible | Tangible and intangible resource such as | New scale | |
| resource | resource of organization for support the work | information, resource, technique, know-how | | |
| readiness (ORR) | of organizational processes to achieve | and opportunity. | | |
| | corporate target. | | | |
| IT capability | The infrastructure and other information | Three components of collecting, analyzing and | Adapted from | |
| (ITC) | technology support of organization for | presenting capability of information | Turulja & | |
| | generating information for operations and | technology. | Bajgoric (2016) | |
| | decision making. | | | |



| Construct | Definition | Operational Variables | Scale Source |
|------------------|--|--|-----------------|
| Environmental | As degree of the change of the external | Degree of the change the external | New scale |
| complexity force | <i>rce</i> organizations; the firm must adapt to such organizations; the firm must adapt t | | |
| | changes in the political, economic, social and | changes in the political, economic, social and | |
| | technological. | technological. | |
| | Moderat | ting variable | |
| Survival Culture | The practical way co-operation for the | Fighting competition in business, building on | Adapted from |
| | readiness in building the strength and trust | the strengths and to focus on the target | Hofstede (1980) |
| | worthiness for the organization survival that | operating clearly. | |
| | adopt from business competition. | | |
| | Contro | l variables | |
| Firm size | The number of workers is representative of | Dummy variable | Bello-Pintado |
| | business size. | 0 = below and equal to 300 employees, | (2015) |
| | | 1 = higher than 300 employees | |
| Ownership | Company-owned units or franchised units. | Dummy variable | Brand & Croonen |
| | | 0 = single-unit, 1 = franchised unit | (2010) |



CHAPTER IV

RESULTS AND DISCUSSION

The previous chapter presented the research methods which include the population and sample, data collection, and the test of non-response bias. Moreover, measurement, assumption testing, data analysis and hypotheses testing are described. This chapter is organized as follows. Firstly, this chapter presents the respondent characteristics, the sample characteristics, and correlation analysis. Secondly, the hypothesis testing and the results are detailed. Finally, the summary of all hypotheses testing and conclusions is included in Table 16.

Respondents Characteristics

Respondent Characteristics

In this research, the key informants are the human resource directors or human resource managers who have the most comprehensive understanding regarding firm characteristic, firm human resource policy, human resource characteristic, and firm performance. The respondent characteristics are described by the demographic characteristics, including gender, age, marital status, level of education, work experience, average monthly income, and current position.

Table 6: Demographic Characteristic of Respondents

| Description | Categories | Frequency | Percentage |
|-------------|------------|-----------|------------|
| Gender | Male | 58 | 45.31 |
| | Female | 70 | 54.69 |
| | Total | 128 | 100.00 |



| Description | Categories | Frequency | Percentage |
|--------------------|-------------------------------|-----------|------------|
| Age | Less than 30 years old | 6 | 4.69 |
| | 30 - 40 years old | 37 | 28.90 |
| | 41 - 50 years old | 57 | 44.53 |
| | More than 50 years old | 28 | 21.88 |
| | Total | 128 | 100.00 |
| Marital Status | Single | 31 | 24.22 |
| | Married | 89 | 69.53 |
| | Divorced/Separated | 8 | 6.25 |
| | Total | 128 | 100.00 |
| Level of Education | Bachelor's degree or lower | 73 | 57.03 |
| | Higher than Bachelor's degree | 55 | 42.97 |
| | Total | 128 | 100.00 |
| Work Experiences | Less than 5 years | 11 | 8.59 |
| | 5 – 10 years | 17 | 13.28 |
| | 11 – 15 years | 26 | 20.31 |
| | More than 15 years | 74 | 57.82 |
| | Total | 128 | 100.00 |
| Average Monthly | Less than 50,000 Baht | 35 | 27.34 |
| Income | 50,001 – 70,000 Baht | 35 | 27.34 |
| | 70,001 – 90,000 Baht | 28 | 21.88 |
| | More than 90,000 Baht | 30 | 23.44 |
| | Total | 128 | 100.00 |
| Current Position | Human resource director | 13 | 10.16 |
| | Human resource manager | 115 | 89.84 |
| | Total | 128 | 100.00 |

Table 6: Demographic Characteristic of Respondents (continued)

From Table 6, shown the demographic characteristic of 128 respondents are as the following. Approximately 54.69 percent of respondents are female. The age span of respondents is 41 - 50 years old (44.53 percent). The majority of respondents are



married (69.53 percent). A total of 57.03 percent earned a bachelor's degree or lower. Exactly 57.82 percent have work experience of more than 15 years. The average monthly income of respondents ranges less than 70,000 baht (54.68 percent). Finally, the majority of the respondents hold a current position as human resource manager (89.84 percent).

Firm Characteristic

| Description | Categories | Frequency | Percentage |
|--------------------|--------------------------|-----------|------------|
| Business | Domestic Investment | 63 | 49.22 |
| Investment | International Investment | 65 | 50.78 |
| | Total | 128 | 100.00 |
| Business Entity | Limited Companies | 123 | 96.09 |
| | Partnership | 5 | 3.91 |
| | Total | 128 | 100.00 |
| Business | Single Units | 53 | 41.41 |
| Ownership | Franchised Units | 75 | 58.59 |
| | Total | 128 | 100.00 |
| Business Location | Northern Region | 1 | 0.78 |
| | Central Region | 54 | 42.19 |
| | Eastern Region | 30 | 23.44 |
| | Northeastern Region | 2 | 1.56 |
| | Bangkok | 41 | 32.03 |
| | Total | 128 | 100.00 |
| Periods of Time in | Less than 5 years | 1 | 0.78 |
| Business | 5 – 10 years | 7 | 5.47 |
| | 11 – 15 years | 12 | 9.38 |
| | More than 15 years | 108 | 84.37 |
| _ | Total | 128 | 100.00 |

Table 7: Characteristics of Auto Parts Businesses



| Description | Categories | Frequency | Percentage |
|---------------------|-------------------------------|-----------|------------|
| Number of Full | Less than and equal 300 | 64 | 50.00 |
| Time Employees | employees | 64 | 50.00 |
| | More than 300 employees | | |
| | Total | 128 | 100.00 |
| Operational Capital | Less than 50,000,000 Baht | 36 | 28.13 |
| | 50,000,001 - 75,000,000 Baht | 22 | 17.19 |
| | 75,000,001 – 100,000,000 Baht | 16 | 12.50 |
| | More than 100,000,000 Baht | 54 | 42.18 |
| | Total | 128 | 100.00 |
| Labor Union | Firm' Employees have Labor | 37 | 28.91 |
| | Union | | |
| | Firm' Employees have not | 91 | 71.09 |
| | Labor Union | | |
| | Total | 128 | 100.00 |
| Firm's Average | Less than 50,000,000 Baht | 13 | 10.16 |
| Revenues per | 50,000,001 – 75,000,000 Baht | 12 | 9.38 |
| Years | 75,000,001 – 100,000,000 Baht | 26 | 20.31 |
| | More than 100,000,000 Baht | 77 | 60.15 |
| | Total | 128 | 100.00 |

 Table 7: Characteristics of Auto Parts Businesses (continues)

The results of the demographic characteristics of 128 auto parts businesses are shown in Table 7. The results indicate that the majority of the firm respondents have business investment from international investment (50.78 percent). The firm respondents have registered as a limited company (96.09 percent). Most of firm respondents are a franchised units (58.59 percent) and are location in the central region (42.19 percent). Approximately 84.37 percent of firm respondents have been operating in the auto parts industry for over 15 years. In addition, it is estimated that half of firm respondents employ more than 300 full time employees (50.00 percent). Most of firm respondents have an operating capital of more than 100,000,000 baht (42.18 percent)

and 60.15 percent of firm respondents have average revenues per year of more than 100,000,000 baht. Lastly, employees in the respondent's firms not have a labor union, equaling 71.09 percent.

Correlation Analysis

In this research, a bivariate correlation analysis of Pearson's correlation was used on all variables for two purposes. The first purpose is to explore the relationships among variables. Another purpose is to verify the multicullinearity problem. Multicollinearity problems exist when the inter-correlation between independent variables exceeds 0.80 (Hair et al., 2010). In this research, the bivariate correlation procedure is subject to a two-tailed test of statistical significance at two levels as p < 0.05, and p < 0.01. The result of the correlation analysis of all variables in this research are shown in Table 8.

Accordingly, Table 8 shows that all of the five dimensions of human resource development capability have significant, positive relationships with employee commitment, operational development, business productivity, firm competitiveness, and firm success (r = 0.557 - 0.781, p < 0.01). For the antecedents, these variables are significantly related to all dimensions of human resource development capability (r = 0.618 - 0.793, p < 0.01). The moderating effect of survival culture have correlations with all variables between 0.689 and 0.865, p < 0.01. In addition to the relationships among the variables, the correlations among all variables in the conceptual model are in the range of 0.176 at p < 0.05 to 0.865 with p < 0.01, which correlations more than 0.8 have no relationship with the independent variables. Thus, the results indicate no multicollinearity problem in this research (Hair et al., 2010).



| | ECA | IAS | CLE | SDC | ICF | ECM | OPD | BNP | FCP | FSC | TLO | HCP | ORR | ITC | ECF | SVC | FS |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Mean | 4.205 | 4.164 | 4.138 | 4.128 | 4.101 | 4.037 | 4.052 | 3.939 | 3.906 | 3.876 | 4.134 | 4.169 | 4.093 | 4.068 | 4.388 | 4.127 | MA |
| S.D. | 0.602 | 0.617 | 0.591 | 0.625 | 0.705 | 0.687 | 0.700 | 0.674 | 0.733 | 0.763 | 0.635 | 0.613 | 0.672 | 0.693 | 0.568 | 0.675 | MA |
| IAS | 0.841** | | | | | | | | | | | | | | | | |
| CLE | 0.786** | 0.796** | | | | | | | | | | | | | | | |
| SDC | 0.782** | 0.775** | 0.772** | | | | | | | | | | | | | | |
| ICF | 0.733** | 0.737** | 0.772** | 0.798** | | | | | | | | | | | | | |
| ECM | 0.694** | 0.621** | 0.668** | 0.781** | 0.694** | | | | | | | | | | | | |
| OPD | 0.652** | 0.661** | 0.623** | 0.687** | 0.661** | 0.801** | | | | | | | | | | | |
| BNP | 0.591** | 0.620** | 0.606** | 0.753** | 0.693** | 0.749** | 0.752** | | | | | | | | | | |
| FCP | 0.606** | 0.659** | 0.651** | 0.720** | 0.761** | 0.762** | 0.758** | 0.850** | | | | | | | | | |
| FSC | 0.557** | 0.581** | 0.579** | 0.651** | 0.653** | 0.720** | 0.732** | 0.790** | 0.874** | | | | | | | | |
| TLO | 0.717** | 0.793** | 0.719** | 0.786** | 0.683** | 0.753** | 0.776** | 0.757** | 0.771** | 0.704** | | | | | | | |
| HCP | 0.706** | 0.722** | 0.667** | 0.803** | 0.718** | 0.715** | 0.745** | 0.759** | 0.767** | 0.701** | 0.844** | | | | | | |
| ORR | 0.706** | 0.740** | 0.712** | 0.789** | 0.757** | 0.742** | 0.733** | 0.761** | 0.771** | 0.711** | 0.807** | 0.851** | | | | | |
| ITC | 0.704** | 0.741** | 0.728** | 0.782** | 0.753** | 0.652** | 0.681** | 0.676** | 0.714** | 0.672** | 0.766** | 0.805** | 0.818** | | | | |
| ECF | 0.618** | 0.622** | 0.583** | 0.644** | 0.617** | 0.448** | 0.460** | 0.477** | 0.511** | 0.470** | 0.622** | 0.661** | 0.657** | 0.671** | | | |
| SVC | 0.692** | 0.734** | 0.709** | 0.780** | 0.779** | 0.689** | 0.689** | 0.701** | 0.737** | 0.727** | 0.769** | 0.785** | 0.811** | 0.865** | 0.695** | | |
| FS | 0.299** | 0.328** | 0.241** | 0.346** | 0.262** | 0.248** | 0.259** | 0.282** | 0.246** | 0.255** | 0.295** | 0.420** | 0.408** | 0.301** | 0.341* | 0.320** | |
| OS | 0.097 | 0.173 | 0.176* | 0.090 | 0.182* | 0.155 | 0.141 | 0.230** | 0.239** | 0.227** | 0.236** | 0.241** | 0.198* | 0.214* | 0.170 | 0.176* | 0.301** |
| NT - | 100 | | | | • | • | | | • | | • | • | | • | • | • | |

Table 8: Descriptive Statistic and Correlation Matrix of Human Resource Development Capability and All Constructs

N = 128

** Correlation is significant at the 0.01 (2-tailed)

* Correlation is significant at the 0.05 level (2-tailed)

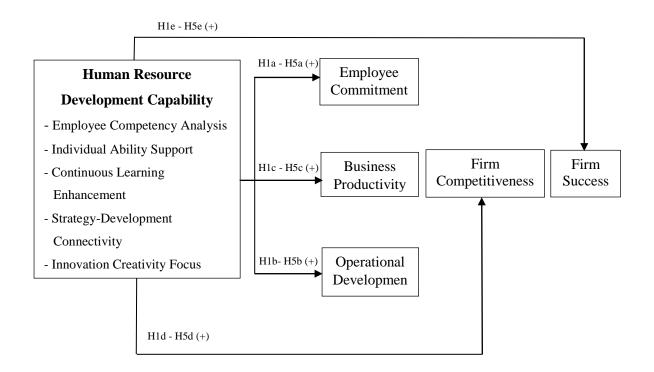


Hypothesis Testing and Results

This research employs the Ordinary Least Squares (OLS) regression to investigate the hypothesized relationships. Also, the regression equation is a linear combination of the independent variables that best explains and predicts the dependent variables. Furthermore, two dummy variables of firm size and ownership are also included in the equations. There are 18 statistical equations in this research. The results of descriptive statistic and hypotheses testing are discussed according to regression equations as follows:

<u>The Relationships among Each Dimension of Human Resource Development</u> <u>Capability and Employee Commitment, Operational Development, Business</u> <u>Productivity, Firm Competitiveness, and Firm Success</u>

> Figure 6: The Relationship among Each Dimension of Human Resource Development Capability and Employee Commitment, Operational Development, Business Productivity, Firm Competitiveness, and Firm Success



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Figure 9 shows the relationships among human resource development capability and its consequences which are proposed in Hypotheses 1(a-e) - 5(a-e). The relationship in each hypothesis is proposed to be in a positive direction. These hypotheses can be transformed into a regression equation in equations 1, 2, 3, 5, and 7.

 Table 9: Descriptive Statistics and Correlation Matrix of Each Dimension of Human Resource Development Capability, Employee Commitment, Operational Development, Business Productivity, Firm Competitiveness, and Firm Success

| | ECA | IAS | CLE | SDC | ICF | ECM | OPD | BNP | FCP | FSC |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Mean | 4.205 | 4.164 | 4.138 | 4.128 | 4.101 | 4.037 | 4.052 | 3.939 | 3.906 | 3.876 |
| S.D. | 0.602 | 0.617 | 0.591 | 0.625 | 0.705 | 0.687 | 0.700 | 0.674 | 0.733 | 0.763 |
| IAS | 0.841** | | | | | | | | | |
| CLE | 0.786** | 0.796** | | | | | | | | |
| SDC | 0.782** | 0.775** | 0.772** | | | | | | | |
| ICF | 0.733** | 0.737** | 0.772** | 0.798** | | | | | | |
| ECM | 0.694** | 0.621** | 0.668** | 0.781** | 0.694** | | | | | |
| OPD | 0.652** | 0.661** | 0.623** | 0.687** | 0.661** | 0.801** | | | | |
| BNP | 0.591** | 0.620** | 0.606** | 0.753** | 0.693** | 0.749** | 0.752** | | | |
| FCP | 0.606** | 0.659** | 0.651** | 0.720** | 0.761** | 0.762** | 0.758** | 0.850** | | |
| FSC | 0.557** | 0.581** | 0.579** | 0.651** | 0.653** | 0.720** | 0.732** | 0.790** | 0.874** | |
| FS | 0.299** | 0.328** | 0.241** | 0.346** | 0.262** | 0.248** | 0.259** | 0.282** | 0.246** | 0.255** |
| OS | 0.097 | 0.173 | 0.176* | 0.090 | 0.182* | 0.155 | 0.141 | 0.230** | 0.239** | 0.227** |

N = 128

** Correlation is significant at the 0.01 level (2-tailed)

* Correlation is significant at the 0.05 level (2-tailed)

Table 9 indicates the correlations among each dimension of human resource development capability and its consequences. In the first dimension, the results illustrate the significant positive correlation between employee competency analysis and employee commitment (r = 0.694, p < 0.01), operational development (r = 0.652, p < 0.01), business productivity (r = 0.591, p < 0.01), firm competitiveness (r = 0.606, p < 0.01), and firm success (r = 0.557, p < 0.01). In the second dimension, individual

ability support has a significant positive correlation to employee commitment (r = 0.621, p < 0.01), operational development (r = 0.661, p < 0.01), business productivity (r = 0.620, p < 0.01), firm competitiveness (r = 0.659, p < 0.01), and firm success (r = 0.581, p < 0.01). For the third dimension, continuous learning enhancement has a significant and positive correlation with employee commitment (r = 0.668, p < 0.01), operational development (r = 0.623, p < 0.01), business productivity (r = 0.606, p < 0.01), firm competitiveness (r = 0.651, p < 0.01), and firm success (r = 0.579, p < 0.01). As to the fourth dimension, strategic-development connectivity is significantly and positively correlated to employee commitment (r = 0.781, p < 0.01), operational development (r = 0.687, p < 0.01), business productivity (r = 0.753, p < 0.01), firm competitiveness (r = 0.720, p < 0.01), and firm success (r = 0.651, p < 0.01). The last dimension, innovation creativity focus has a significant and positive correlation with employee commitment (r = 0.694, p < 0.01), operational development (r = 0.661, p < 0.01), business productivity (r = 0.693, p < 0.01), firm competitiveness (r = 0.761, p < 0.01), and firm success (r = 0.653, p < 0.01). The findings in Table 7 indicate that all correlations are less than 0.80 as recommended by Hair and colleagues (2010). Moreover, the variance inflation factor (VIF) in equations 1, 2, 3, 5, and 7 indicate the maximum value as 4.426 (see the detail of VIF in Appendix D, Table D3). As mentioned earlier, the VIF value was lower than 10 as recommended by Hair and Colleagues (2010), meaning that the independent variables are not correlated with each other. Therefore, multicollinearity is not a problem in this research.

Next, Table 10 illustrates the multiple regression analysis of the relationship among human resource development capability (employee competency analysis, ECA; individual ability support, IAS; continuous learning enhancement, CLE; strategicdevelopment connectivity, SDC; and innovation creativity focus, ICF) and its consequences (employee commitment, ECM; operational development, OPD; business productivity, BNP; firm competitiveness, FCP; and firm success, FSC), as shown in Table 9.

Table 10: Result of Regression Analysis for the Effects of Human Resource Development Capability on Employee Commitment, Operational Development, Business Productivity, Firm Competitiveness, and Firm Success

| | | Dep | endent Varia | ables | |
|----------------------------|----------|----------|--------------|----------|----------|
| | ECM | OPD | BNP | FCP | FSC |
| Independent Variables | H1-5a | H1-5b | H1-5c | H1-5d | H1-5e |
| | Equation | Equation | Equation | Equation | Equation |
| | 1 | 2 | 3 | 5 | 7 |
| Employee Competency | 0.327*** | 0.139 | -0.083 | -0.100 | -0.008 |
| Analysis (ECA) | (0.118) | (0.123) | (0.119) | (119) | (0.135) |
| Individual Ability Support | -0.148 | 0.198 | 0.070 | 0.186 | 0.082 |
| (IAS) | (0.119) | (0.124) | (0.120) | (0.121) | (0.137) |
| Continuous Learning | 0.137 | 0.032 | -0.078 | 0.068 | 0.043 |
| Enhancement (CLE) | (0.112) | (0.117) | (0.114) | (0.114) | 0.129) |
| Strategy Development | 0.315*** | 0.266** | 0.618*** | 0.387*** | 0.338*** |
| Connectivity (SDC) | (0.115) | (0.119) | (0.116) | (0.116) | (0.131) |
| Innovation Creativity | 0.241** | 0.230** | 0.258** | 0.297*** | 0.285** |
| Focus (ICF) | (0.107) | (0.111) | (0.108) | (0.109) | (0.105) |
| Firm Size (FS) | -0.034 | -0.012 | -0.036 | -0.105 | -0.026 |
| | (0.128) | (0.133) | (0.129) | (0.129) | (0.146) |
| Ownership (OS) | 0.141 | 0.082 | 0.306** | 0.266** | 0.246* |
| | (0.125) | (0.130) | (0.126) | (0.127) | (0.143) |
| Adjusted R ² | 0.600 | 0.564 | 0.582 | 0.578 | 0.456 |
| F-Statistic | 27.733 | 24.105 | 25.902 | 25.427 | 15.961 |
| Durbin-Watson | 2.096 | 1.902 | 1.979 | 1.894 | 1.792 |
| Max VIF | 4.426 | 4.426 | 4.426 | 4.426 | 4.426 |

Beta coefficients with standard in parenthesis. ***p < 0.01, **p < 0.05, *p < 0.10

Regarding Table 10, the results of the OLS regression analysis illustrate that the first dimension, employee competency analysis (Hypotheses 1a), is significantly and positively related to employee commitment ($\beta_{01} = 0.327$, p < 0.01). The analysis of competency has a significant, positive relationship with employee commitment (Khan, Masrek, & Nadzar, 2015). **Therefore, hypothesis 1a is supported.** However, Table 8 illustrates no significant relationship of employee competency analysis with operational development ($\beta_{08} = 0.139$, p > 0.10), business productivity ($\beta_{15} = -0.083$, p > 0.10), firm competitiveness ($\beta_{26} = -0.100$, p > 0.10), and firm success ($\beta_{38} = -0.008$, p > 0.10). Previous research suggested that even the analysis of competency has no direct effects on firm performance (Khan, Masrek, & Nadzar, 2015), but it does have a direct effect on employee commitment and job satisfaction of the employees, which is a direct effect on firm performance, in firm productivity, turnover intention, and firm success (Mathieu & Zajac, 1990). Thus, competency analysis has indirect effects on firm performance. **Therefore, hypotheses 1b–1e are not supported.** Briefly, employee competency analysis is positively related to employee commitment. However, employee competency analysis is not related to operational development, business productivity firm competitiveness, and firm success.

Secondly, it is found that individual ability support, the second dimension, is no significantly related to employee commitment ($\beta_{02} = -0.148$, p > 0.10), operational development ($\beta_{09} = 0.198$, p > 0.10), business productivity ($\beta_{16} = 0.070$, p > 0.10), firm competitiveness ($\beta_{27} = 0.186$, p > 0.10), and firm success ($\beta_{39} = 0.082$, p > 0.10). Previous research has suggested that if firm emphasis on individual ability without a perceived job security, growth opportunities and the wage of an employee, it is high opportunity that emerges with employee turnover intention, and it reduces operational performance and firm performance (Ambrozova et al., 2016; Kennett, 2013). Hence, the firm should emphasize individual ability coupled with perceived job security, growth opportunities, and wages of employees to enhance the firm operation and performance. **Therefore, hypotheses 2a-2e are not supported.** Summarily, individual ability support is not related to employee commitment, operational development, business productivity, firm competitiveness, and firm success.

Thirdly, like the second dimension, continuous learning enhancement (the third dimension) is not significantly related to employee commitment ($\beta_{03} = 0.137$, p > 0.10), operational development ($\beta_{10} = 0.032$, p > 0.1), business productivity ($\beta_{17} = -0.078$, p > 0.10), firm competitiveness ($\beta_{28} = 0.068$, p > 0.10), and firm success ($\beta_{40} = 0.043$, p > 0.10). Previous research has suggested that continuous learning has no direct effects on firm performance, but it has an indirect effect on firm performance (Baker & Sinkula, 1999) through the mediating role of firm capability, innovativeness, and competencies creation (Murray, 2003). Moreover, learning organization is necessary

studied coupled with organizational structure and formation factors (Goh & Ryan, 2002). **Therefore, hypotheses 3a-3e are not supported.** It implies that continuous learning enhancement is not related to employee commitment, operational development, business productivity, firm competitiveness, and firm success.

Fourthly, unlike the first three dimensions, strategic-development connectivity (the fourth dimension) is significantly and positively related to all of its consequences which are employee commitment ($\beta_{04} = 0.315$, p < 0.01), operational development $(\beta_{11} = 0.266, p < 0.05)$, business productivity $(\beta_{18} = 0.618, p < 0.01)$, firm competitiveness ($\beta_{29} = 0.387$, p < 0.01), and firm success ($\beta_{41} = 0.338$, p < 0.01). The finding is consistent with previous research shows a connection between firm objective, mission and agenda through transferring, sharing and integrating with human resource development which can contribute to organizational capabilities, improving employee satisfaction and business performance (Yeung & Berman, 1997) and gaining competitive advantage and business success (Pattanayak, 2003). To survive in the present scenario of cut-throat competition, the organization has to develop appropriate human resource development strategies to manage its workforce in an organized manner and align its potential with that of its corporate missions and objectives (Deb, 2010). Organizational strategies exploit tangible (for example technology, products, and services) as well as intangible resources and capabilities (for example human resources, creation of a learning culture, leadership) in the organization. Strategies that exploit intangible resources such as the effective utilization of human resource development initiatives are more likely to be sources of competitive advantage rather than those that do not, because these strategies are path-dependent, socially complex, and causally ambiguous (Barney, 1991; Itami & Roehl, 1987). The strategic development and utilization of people working efficiently in the organization to cope with the environmental changes in business, and competently managing business challenges, is a source for gaining competitive advantage (Huda et al., 2007). Moreover, human resource development can help to create a source of sustained competitive advantage, especially when it is aligned with a firm's competitive strategy (Singh, 2011). Therefore, hypotheses 4a-4e are supported. Summarily, the strategic-development

connectivity is positively related to employee commitment, operational development, business productivity, firm competitiveness, and firm success.

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Finally, the research reveals that innovation creativity focus is significantly and positively associated with employee commitment ($\beta_{05} = 0.241$, p < 0.05), operational development ($\beta_{12} = 0.230$, p < 0.05), business productivity ($\beta_{19} = 0.258$, p < 0.01), firm competitive ($\beta_{30} = 0.297$, p < 0.01), and firm success ($\beta_{42} = 0.285$, p < 0.05). The finding is consistent with previous research in that the ability of employees to create new knowledge, in terms of both products and of services, in order to maintain their market value, is crucial. This emphasis on permanent innovation transfers the workplace into a setting for learning and innovation (Billet, 2008; Van Woerkom & Poell, 2010). In dynamic and sometimes chaotic organizations, employees need to have more than average competences to innovate (Cozijnsen & Vrakking, 2013; Weick & Quinn, 1999). In order to increase the success rate of innovation, it seems vital to acquire expertise on how professionals in the workplace gain product knowledge within innovation groups, what problems they face, and how they can improve their ability to realize successful innovations (Ehlen et al., 2013). Knowledge needs to be understood as the potential for action that not only depends upon the stored information but also on the person interacting with it (Malhotra, 2000). Becoming knowledge-productive can be seen as acquiring new skills and attitudes as part of a personal competence (Ehlen et al., 2013). The concept of knowledge productivity in terms of innovation creativity focus is an important source of action in human resource development (Kessel, 2004), and employee commitment (Yen et al., 2004). It also is fundamental to business performance, growth and ultimately business success (Chamberlin et al., 2010; Dervitsiotis, 2011). Process innovation is a positive stimulation to productivity (Daveri & Parisi, 2015) and it is a way of competitiveness in the organization (Sedlakova, 2015). Therefore, hypotheses 5a-5e are supported. Briefly, the innovation creativity focus is positively related to employee commitment, operational development, business productivity, firm competitiveness, and firm success.

Moreover, the result of the power of indication illustrates that the adjusted R-square is between 0.456 and 0.600, tested F-statistic are between 15.961 and 27.733, Durbin-Watson scores are between 1.792 and 2.096 of which there is a range of 1.50 to 2.50 (Duebin & Watson, 1971), and the maximum VIF is 4.426.

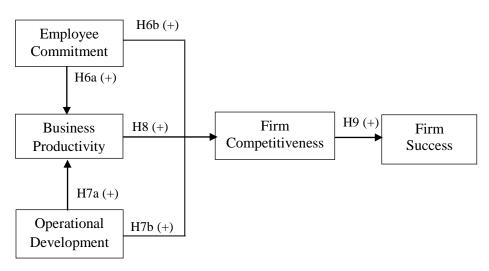
Additionally, the results of control variables indicate that firm size (number of employees) are not related to employee commitment ($\beta_{06} = -0.034$, p > 0.10),

operational development ($\beta_{13} = -0.012$, p > 0.10), business productivity ($\beta_{20} = -0.036$, p > 0.10), firm competitiveness ($\beta_{31} = -0.105$, p > 0.10), and firm success ($\beta_{43} = -0.026$, p > 0.10). The results can be interpreted that consequences of human resource development capability are not influenced by firm size. The other control variables are business ownership, which are not related to employee commitment ($\beta_{07} = 0.141$, p > 0.10) and operational development ($\beta_{14} = 0.082$, p > 0.10), excluding the result of equations 3, 5, and 7 which found that business ownership has positive influences on business productivity ($\beta_{21} = 0.306$, p < 0.05), firm competitiveness ($\beta_{32} = 0.266$, p < 0.05), and firm success ($\beta_{44} = 0.246$, p< 0.10). Therefore, it can be interpreted that franchised units that have a higher HR performance (include business productivity, firm competitiveness, and firm success) than company-owned-units (Brand & Croonen, 2010; Chandler & McEvoy, 2000).



Figure 7: The Relationships among Employee Commitment, Operational

Development, Business Productivity, Firm Competitiveness and Firm Success



According to Figure 7, the relationships among employee commitment, operational development, business productivity, firm competitiveness and firm success are shown. This research proposes that employee commitment, operational development, business productivity and firm competitiveness have an effect on firm success in positive directions (Hypotheses 6-9). These hypotheses are transformed into regression equations 4, 6 and 8.

Table 10 illustrates correlations among employee commitment, operational development, business productivity, firm competitiveness, and firm success. The results show the positive correlation between employee commitment and business productivity (r = 0.749, p < 0.01). Similarly, operational development has a significant and positive correlation with business productivity (r = 0.752, p < 0.01). Firm competitiveness has significant and positive correlations with employee commitment (r = 0.762, p < 0.01), operational development (r = 0.758, p < 0.01), business productivity (r = 0.850, p < 0.01), and firm success (r = 0.874, p < 0.01). From the finding in Table 10, most correlations are less than 0.80 as recommended by Hair and colleagues (2010).

Table 11: Descriptive Statistics and Correlation Matrix of Employee Commitment, Operational Development, Business Productivity, Firm Competitiveness, and Firm Success

| | ECM | OPD | BNP | FCP | FSC | FS | OS |
|---------|---------|---------|---------|---------|---------|-------|----|
| Mean | 4.205 | 4.164 | 4.138 | 4.128 | 4.101 | NA | NA |
| S.D. | 0.602 | 0.617 | 0.591 | 0.625 | 0.705 | NA | NA |
| OPD | 0.801** | | | | | | |
| BNP | 0.749** | 0.752** | | | | | |
| FCP | 0.762** | 0.758** | 0.850** | | | | |
| FSC | 0.720** | 0.732** | 0.790** | 0.874** | | | |
| FS | 0.248** | 0.259** | 0.282** | 0.246** | 0.255** | | |
| OS | 0.155 | 0.141 | 0.230** | 0.239** | 0.227** | 0.301 | |
| N - 128 | • | • | • | • | | • | • |

N = 128

** Correlation is significant at the 0.01 level (2-tailed)

* Correlation is significant at the 0.05 level (2-tailed)

Moreover, the correlation value between employee commitment and operational development (r = 0.801, p < 0.01), and firm competitiveness and firm success (r = 0.874, p < 0.01) are over 0.80. In Appendix D, Table D3 shows that the VIF value of employee commitment (VIF = 2.814 in equation 4, and 3.244 in equation 6), operational development (VIF = 2.823 in equation 4, and 3.290 in equation 6) are less than 10, lower than cut-off score (Hair et al., 2010). Moreover, firm competitiveness and firm success are not independent variables in the same equation. Therefore, both the correlation and the VIF ensure the non-existence of a multicollinearity problem.

Table 12: Result of Regression Analysis for the Effects among Employee Commitment, Operational Development, Business Productivity, Firm Competitiveness, and Firm Success

| | Dep | endent Varia | bles | |
|-------------------------------|----------|--------------|----------|--|
| | BNP | FCP | FSC | |
| Independent Variables | H6-7a | H6-7b, 8 | H9 | |
| | Equation | Equation | Equation | |
| | 4 | 6 | 8 | |
| Employee Commitment (ECM) | 0.370*** | 0.196** | | |
| | (0.089) | (0.078) | | |
| Operational Development (OPD) | 0.440*** | 0.175** | | |
| | (0.089) | (0.080) | | |
| Business Productivity (BNP) | | 0.567*** | | |
| | | (0.072) | | |
| Firm Competitiveness (FCP) | | | 0.857*** | |
| | | | (0.046) | |
| Firm Size (FS) | 0.083 | -0.063 | 0.074 | |
| | (0.114) | (0.093) | (0.093) | |
| Ownership (OS) | 0.183 | 0.105 | 0.009 | |
| | (0.113) | (0.094) | (0.094) | |
| Adjusted R ² | 0.643 | 0.761 | 0.754 | |
| F-Statistic | 57.252 | 80.401 | 128.517 | |
| Durbin-Watson | 1.864 | 2.117 | 2.212 | |
| Max VIF | 2.823 | 3.290 | 1.099 | |

Beta coefficients with standard in parenthesis. ***p < 0.01, **p < 0.05, *p < 0.10

For the hypothesis testing, the results of regression analysis are identified in Table 12. As expected, it was found that employee commitment has significant effects on business productivity ($\beta_{22} = 0.370$, p < 0.01) and firm competitiveness ($\beta_{33} = 0.296$, p < 0.05). The employee commitment or the behavioral outcome in terms of employee commitment, leads to a greater operational outcome in terms of productivity (Juang et al., 2012. It also is a mediating role between human resource management and business productivity (Deepa et al., 2014) and leads to improved firm competitiveness

(Kwantes, 2007). **Therefore, hypotheses 6a and 6b are supported.** Briefly, employee commitment is positively related to business productivity and firm competitiveness.

Next, the interesting finding indicates that operational development has strong and positive effects on business productivity ($\beta_{23} = 0.440$, p < 0.01) and firm competitiveness ($\beta_{34} = 0.175$, p < 0.05). The finding is consistent with previous research in that operational development a related to problem-solving skills, action for enhancing operational performance, organizational competition, and financial performance; and also displays the common characteristics of other capabilities such as the knowledge and skill of an organization (Schreyogg & Kliesch-Eberl, 2007). The operational development that focuses on employee involvement and total quality management found both positive relationships with various indices of firm performance including productivity, sales per employee, return on assets, and return on equity (Lawler et al., 1998). Furthermore, the firm's operational development is related to change in the productivity and profit of an organization (Patterson, West, & Wall, 2004). Moreover, it also has effects on both short and long-term firm competitiveness and performance (Birdi et al., 2008). Therefore, hypotheses 7a and 7b are supported. Accordingly, the operational developments are positively related to business productivity and firm competitiveness.

Next, the findings indicate that business productivity has strong, positive effects on firm competitiveness ($\beta_{35} = 0.567$, p < 0.01). The finding is consistent with previous research in that the higher productivity produces more outputs by providing the same level of inputs; on the other hand, it produces the same outputs by providing a lesser level of inputs (Halkos & Tzeremes, 2007). Productivity is a key factor that is related to economic growth. Similarly, at the company level, high productivity is the important factor for better performance, successful competition and firm survival (Oeij et al., 2011). The productivity of labor can commonly improve the competitiveness of the firm based on a unit factor of manufacturing (Chaudhuri & Ray, 1997; Latruff, 2010; Tanase, 2011). Productivity growth is vital for building competitiveness at the international and domestic levels (Balakrishnan & Pushpangadan, 1998; Sehgal & Sharma, 2011). Productivity performance is an important determinant for competitiveness of an industry and the firm (Sultan & Jain, 2016). Therefore,

hypothesis 8 is strongly supported. Accordingly, business productivity is positively related to firm competitiveness.

Finally, the finding indicates that firm competitiveness has strong and positive effects on firm success ($\beta_{45} = 0.857$, p < 0.01). This finding is consistent with previous research in that competitive advantage enhances firm performance (Abushaiba & Zainuddin, 2012). Firm competitiveness has direct, positive effects on firm success (Bharadwaj & Menon, 2000). It plays an important role to improve firm performance (Tesla, Iraldo, & Frey, 2011). **Therefore, hypothesis 9 is strongly supported.** Briefly, firm competitiveness is positively related to firm success.

Moreover, the result of the power of indication is illustrated that the adjusted R-square is between 0.643 and 0.761, F-statistic tests are between 57.252 and 128.517, Durbin-Watson scores are between 1.864 and 2.212 (which are in the range of 1.50-2.50) (Duebin & Watson, 1971), and the maximum VIF is 3.290.

Additionally, the result of the control variables indicate that firm size (number of employees) has no significant relationship with business productivity ($\beta_{24} = 0.083$, p > 0.10), firm competitiveness ($\beta_{36} = -0.063$, p > 0.10), and firm success ($\beta_{46} = 0.074$, p > 0.10). Similarly, the result of other control variables indicate that business ownership has no significant relationship with business productivity ($\beta_{25} = 0.183$, p > 0.10), firm competitiveness ($\beta_{37} = -0.105$, p > 0.10), and firm success ($\beta_{47} = 0.009$, p > 0.10). Therefore, the consequential relationship of human resource development capability is not influenced by firm size and business ownership.

<u>The Relationships among the Antecedents, Human Resource Development</u> <u>Capability and Moderating Role of Survival Culture</u>

Figure 8: The Relationships among Transformational Leadership Orientation, Human Capital Policy, Organizational Resource Readiness, IT Capability, Environmental Complexity Force and Human Resource Development Capability

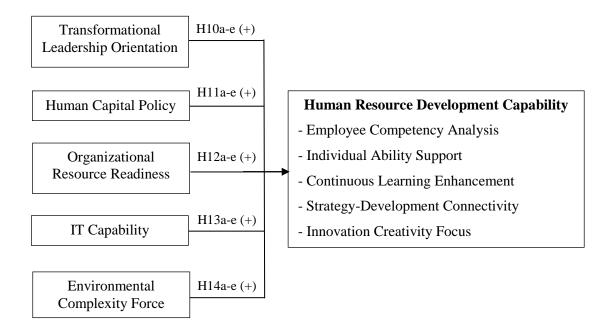


Figure 8 illustrates the relationships among five antecedents consisting of transformational leadership orientation, human capital policy, organizational resource readiness, its capability, and environmental complexity force with five dimensions of human resource development capability; it also proposes Hypotheses 10(a-e)-14(a-e). The relationship in each hypothesis is proposed in a positive direction. These hypotheses can be transformed into the regression equation in models 9, 11, 13, 15 and 17.



Table 13: Descriptive Statistic and Correlation Matrix of Transformational Leadership Orientation, Human Capital Policy, Organizational Resource Readiness, IT Capability, Environmental Complexity Force, Each Dimension of Human Resource Development Capability, and Survival Culture

| | TLO | HCP | ORR | ITC | ECF | SVC | ECA | IAS | CLE | SDC | ICF | FS |
|------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Mean | 4.134 | 4.169 | 4.093 | 4.068 | 4.388 | 4.127 | 4.205 | 4.164 | 4.138 | 4.128 | 4.101 | MA |
| S.D. | 0.635 | 0.613 | 0.672 | 0.693 | 0.568 | 0.675 | 0.602 | 0.617 | 0.591 | 0.625 | 0.705 | MA |
| HCP | 0.844** | | | | | | | | | | | |
| ORR | 0.807** | 0.851** | | | | | | | | | | |
| ITC | 0.766** | 0.805** | 0.818** | | | | | | | | | |
| ECF | 0.622** | 0.661** | 0.657** | 0.671** | | | | | | | | |
| SVC | 0.769** | 0.785** | 0.811** | 0.865** | 0.695** | | | | | | | |
| ECA | 0.717** | 0.706** | 0.706** | 0.704** | 0.618** | 0.692** | | | | | | |
| IAS | 0.693** | 0.722** | 0.740** | 0.741** | 0.622** | 0.734** | 0.841** | | | | | |
| CLE | 0.719** | 0.667** | 0.712** | 0.728** | 0.583** | 0.709** | 0.786** | 0.796** | | | | |
| SDC | 0.786** | 0.803** | 0.789** | 0.782** | 0.644** | 0.780** | 0.782** | 0.775** | 0.772** | | | |
| ICF | 0.683** | 0.718** | 0.757** | 0.753** | 0.617** | 0.779** | 0.733** | 0.737** | 0.772** | 0.798** | | 1 |
| FS | 0.295** | 0.420** | 0.408** | 0.301** | 0.341** | 0.320** | 0.299** | 0.328** | 0.241** | 0.346** | 0.262** | |
| OS | 0.236** | 0.241** | 0.198** | 0.214** | 0.170 | 0.176* | 0.097 | 0.173 | 0.176* | 0.090 | 0.182* | 0.301** |

N = 128

** Correlation is significant at the 0.01 level (2-tailed)

* Correlation is significant at the 0.05 level (2-tailed)

Table 13 describes the correlations among transformational leadership orientation, human capital policy, organizational resource readiness, information technology capability, environmental complexity force, and each dimension of human resource development capability (HRDC). In details, it seems that all antecedents have a positive correlation with all dimensions of human resource development capability. Firstly, transformational leadership orientation correlates with employee competency analysis (r = 0.717, p < 0.01), individual ability support (r = 0.639, p < 0.01), continuous learning enhancement (r = 0.719, p < 0.01), strategic-development connectivity (r = 0.786, p < 0.01), and innovation creativity focus (r = 0.683, p < 0.01). Secondly, human capital policy correlates with employee competency analysis (r = 0.706, p < 0.01), individual ability support (r = 0.722, p < 0.01), continuous learning enhancement (r = 0.667, p < 0.01), strategic-development connectivity (r = 0.803, p < 0.01), and innovation creativity focus (r = 0.781, p < 0.01). Thirdly, organizational resource readiness correlates with employee competency analysis (r = 0.706, p < 0.01), individual ability support (r = 0.704, p < 0.01), continuous learning enhancement (r = 0.712, p < 0.01), strategic-development connectivity (r = 0.789, p < 0.01), and innovation creativity focus (r = 0.757, p < 0.01).

Fourthly, information technology capability correlates with employee competency analysis (r = 0.704, p < 0.01), individual ability support (r = 0.741, p < 0.01), continuous learning enhancement (r = 0.728, p < 0.01), strategic-development connectivity (r = 0.782, p < 0.01), and innovation creativity focus (r = 0.753, p < 0.01). Finally, environmental complexity force correlates with employee competency analysis (r = 0.618, p < 0.01), individual ability support (r = 0.622, p < 0.01), continuous learning enhancement (r = 0.583, p < 0.01), strategic-development connectivity (r = 0.644, p < 0.01), and innovation creativity focus (r = 0.617, p < 0.01). Most of correlations are less than 0.80 to be recommended by Hair and colleagues (2010). Moreover, the correlation value between independent variables of transformational leadership orientation with human capital policy (r = 0.844, P < 0.01), organizational resource readiness (r = 0.807, p < 0.01), human capital policy with organizational resource readiness (r = 0.851, p < 0.01), information technology capability (r = 0.805, p < 0.01), and organizational resource readiness (r = 0.818, p < 0.01) more than 080. However, the variance inflation factor (VIF) of transformational leadership orientation, human capital policy, organizational resource readiness, and information technology indicate the maximum value as 5.550 (see the details of VIF in Appendix D, Table D3), which are lower than the cut-off score of 10 (Hair et al., 2010). Therefore, multicollinearity is not a problem in this research.



Table 14: Result of Regression Analysis for the Effects of TransformationalLeadership Orientation, Human Capital Policy, OrganizationalResource Readiness, IT Capability, Environmental ComplexityForce and Human Resource Development Capability

| | | Dep | endent Varia | bles | |
|-----------------------------------|----------|----------|--------------|-----------|----------|
| | ECA | IAS | CLE | SDC | ICF |
| Independent Variables | H10-14a | H10-14b | H10-14c | H10-14d | H10-14e |
| - | Equation | Equation | Equation | Equation | Equation |
| | 9 | 11 | 13 | 15 | 17 |
| Transformational Leadership | 0.303*** | 0.113 | 0.350*** | 0.264*** | 0.034 |
| Orientation (TLO) | (0.112) | (0.111) | (0.111) | (0.091 | (0.111) |
| Human Capital Policy (HCP) | 0.131 | 0.144 | -0.086 | 0.249** | 0.113 |
| | (0.131) | (0.129) | (0.129) | (0.106) | (0.129) |
| Organizational Resource Readiness | 0.089 | 0.203* | 0.194* | 0.117 | 0.335*** |
| (ORR) | (0.122) | (0.120) | (0.120) | (0.099) | (0.107) |
| Information Technology Capability | 0.226** | 0.306*** | 0.346*** | 0.261*** | 0.303*** |
| (ITC) | (0.108) | (0.107) | (0.107) | (0.088) | (0.107) |
| Environmental Complexity Force | 0.134* | 0.103 | 0.062 | 0.065 | 0.259* |
| (ECF) | (0.080) | (0.079) | (0.079) | (0.065) | (0.152) |
| Firm Size (FS) | 0.091 | 0.075 | -0.044 | 0.127 | -0.125 |
| | (0,129) | (0.127) | (0.127) | (0.105) | (0.128) |
| Ownership (OS) | -0.189 | -0.024 | 0.023 | -0.264*** | 0.033 |
| | (0.120) | (0.118) | (0.118) | (0.097) | (0.118) |
| Adjusted R ² | 0.599 | 0.607 | 0.604 | 0.737 | 0.600 |
| F-Statistic | 27.679 | 28.637 | 28.261 | 50.933 | 27.820 |
| Durbin-Watson | 2.028 | 2.080 | 2.180 | 2.181 | 2.119 |
| Max VIF | 5.920 | 5.920 | 5.920 | 5.920 | 5.920 |

Beta coefficients with standard in parenthesis. ***p < 0.01, **p < 0.05, *p < 0.10

The results of regression analysis are explained in Table 14. Firstly, the results indicate that transformational leadership orientation has a positive effect on three dimensions of human resource development capability consisting of employee competency analysis ($\beta_{48} = 0.303$, p < 0.01), continuous learning enhancement ($\beta_{88} = 0.350$, p < 0.01), and strategic development connectivity ($\beta_{108} = 0.264$, p < 0.01). The finding is consistent with previous research in that it is generally known in modern management that transformation leadership has positive enhancement in attitudes about

learning and training that can lead to operational efficiency (Howell & Frost, 1989). It can upgrade employee satisfaction with the training intention that leads to attitudes which are shared between leader and follower (Weber & Kelloway, 1996). It also plays on motivating the employee training (Hassan et al., 2010). Transformational leadership orientation is a strategic tools to moderate a perceived human resource management of the individual level of the employee (Vermeeren, 2014). The leadership style of CEOs, TMTs, and line managers is the most important to stakeholders who influence the formulation and implementation of human resource development practices (Alagaraja, Cumverland, & Choi, 2015). **Therefore, hypotheses 10a, 10c and 10d are strongly supported.** Briefly, transformational leadership orientation is positively related to employee competency analysis, continuous learning enhancement, and strategicdevelopment connectivity.

Nevertheless, transformational leadership orientation has no significant relationship with individual ability support ($\beta_{68} = 0.113$, p > 0.10) and innovation creativity focus ($\beta_{128} = 0.034$, p > 0.10). Although transformational leadership is a source of innovativeness in an organization (Raj & Srivastva, 2016), it also applies a strong influence to employee creativity (Gumusluoglu & Ilsev, 2009). The insignificant results may imply that organizational encouragement in providing resources give opportunities to use employee skills and responses the desire to development of employees, including generating and sharing the information, knowledge and experience are necessarily coupled with active engagement and self-actualization by which the active engagement and self-actualization are not effected by transformational leadership (Dvit, Eden, Avilio, & Shamir, 2002). **Therefore, hypotheses 10b and 10e are not supported.** Summarily, transformational leadership orientation is not related to individual ability support and innovation creativity focus.

Secondly, the findings from this research describe that human capital policy has a positive effect on strategic-development connectivity ($\beta_{109} = 0.249$, p < 0.05). The finding is consistent with previous research in that organizational policy seems to provide guidelines and set standards about what is generally acceptable and not acceptable in terms of behavior, what is to be done on certain situations, where there is a breach of standards of conduct or performance, and whether the organization will have informal or formal procedures to correct such a breach (Bailey, 2011). It has a positive relationship with employee behavior. The goal of human capital should have people throughout the firm committed to the strategic agenda and believing that human capital policy is an essential ingredient of success of an organization (Norton, Zacher, & Ashkanasy, 2014). **Therefore, hypothesis 11d is supported.** Summarily, human capital policy is positively related to strategic-development connectivity.

However, human capital policy has no significant effect on employee competency analysis ($\beta_{49} = 0.131 \text{ p} > 0.10$), individual ability support ($\beta_{69} = 0.144$, p > 0.10), continuous learning enhancement ($\beta_{89} = -0.086$, p > 0.10), and innovation creativity focus ($\beta_{129} = 0.113$, p > 0.10). The finding is consistent with previous research in that human resource policies fail to support workplace learning, training and development (Clarke, 2006). Because, the workplace learning, training and developing are wanted in relation to meeting much of complex knowledge and skill needs to be required in today's workplaces (Paauwe & William, 2001). Thus, the human capital policy is not directly related to human resource learning and development, but human capital policy should emphasize in learning organizations that have a direct effect on employee learning and development (Clarke, 2006; Raper, Ashton, Felstead, & Storey, 1997). **Therefore, hypotheses 11a, 11b, 11c and 11e are not supported.** Briefly, human capital policy is not related to employee competency analysis, individual ability support, continuous learning enhancement, and innovation creativity focus.

Thirdly, the findings of this research indicate that organizational resource readiness has positive relationships with individual ability support ($\beta_{70} = 0.203$, p < 0.10), continuous learning enhancement ($\beta_{90} = 0.194$, p < 0.10), and innovation creativity focus ($\beta_{130} = 0.335$, p < 0.01). The finding is consistent with previous research in that the competency-based needs analysis process will provide a systematic approach to determine the most important training needs which allow the management to determine the needs to better utilize available resources (Price et al., 2010). Moreover, a firm utilizing the shared resource of the updated information should also be gained and shared by processes, including information-sharing, resource-sharing, techniques and know-how sharing, and opportunity-sharing (Takeno et al., 2001). Organizational resource readiness has been shared all over the firm where the capability to create new products, new services and new processes will increase (Kratzer, Gemunden, & Lettl, 2008). **Therefore, hypotheses 12b, 12c and 12e are supported.**

Summarily, organizational resource readiness is positively related to individual ability support, continuous learning enhancement, and innovation creativity focus.

However, organizational resource readiness has no significant effect on employee competency analysis ($\beta_{50} = 0.089$, p > 0.10) and strategic-development connectivity ($\beta_{110} = 0.117$, p > 0.10). The finding is consistent with previous research in that the implementation of organizational resource readiness in the any part of the organization must be specified by many factors such as top management support, vision, mission and goals including resource allocation, firm culture structure, communication, and user involvement that determine their resources to appropriate department (Alhakimi & Alzahary, 2015). For example, in this research, organizational resource readiness implements human resource development. The top management support is the first to demonstrate the willingness to provide the necessary resources and authority or power for human resource development success, including a business plan that would have a clear vision for human resource development and to guide the resource usage (Fui-Hoon Nah, Lee-Shang Lau, & Kuang, 2001). Moreover, the organizational culture and resource allocation can be a facilitator or a major impediment to successful implementation of resources in human resource development (Razmi, Ghodsi, & Sangari, 2008). Therefore, hypotheses 12a and 12d are not supported. Briefly, organizational resource readiness is not related to employee competency analysis and strategic-development connectivity.

Fourthly, the result of regression analysis indicates that information technology capability has a positive relationship with all dimensions of human resource development capability consisting of employee competency analysis ($\beta_{51} = 0.226$, p < 0.05), individual ability support ($\beta_{71} = 0.306$, p < 0.01), continuous learning enhancement ($\beta_{91} = 0.346$, p < 0.01), strategic-development connectivity ($\beta_{111} = 0.261$, p < 0.01), and innovation creativity focus ($\beta_{131} = 0.303$, p < 0.01). The finding is consistent with previous research in that information technology supports several parts of human resource development such as in technical skill, managerial and interpersonal skill (Couger et al., 1995). Information technological capability is an organization's ability to mobilize and deploy computer-based technologies (for example hardware, software, network-to-data communication, soft technologies, or advanced management practice) for operational activities such as strategic cost management in a wide variety

of industries. Information technology changes the role of the human resource function (Steijn & Van Den Muyzenberg, 2012). The achievement of information system implementation (set of interrelated components are used to collect, process, store and disseminate information to support decision-making, analysis and management controls in an organization) (Coulter, 2002), and integration and utilization of data from a common database for generating information for operations and decision-making (Chapman, 2005). The information technology is expected to quicken and improve human resource related administrative, operational and planning decisions (Broderick & Boudreau, 1991). Thus, information technology capability has a significant relationship with human resource management capability (Yurulja & Bajgoric, 2016). **Therefore, hypotheses 13a, 13b, 13c, 13d and 13e are supported.** Summarily, information technology capability is positively related to employee competency analysis, individual ability support, continuous learning enhancement, strategic-development connectivity, and innovation creativity focus.

Finally, the findings from this research describe that environmental complexity force has a positive relationship with employee competency analysis ($\beta_{52} = 0.134$, p < 0.10) and innovation creativity focus ($\beta_{132} = 0.259$, p < 0.10). The finding is consistent with previous research in that environmental complexity force has an effect on the decision-making of an organization that in is a state of uncertainty and developing a process (Ashill & Jobber, 2014). It influences organizational work and skills and also affects the context and practice of training, development and human resource development (Garavan et al., 2008). **Therefore, hypotheses 14a and 14e are supported.** Briefly, environmental complexity force is positively related to employee competency analysis and innovation creativity focus.

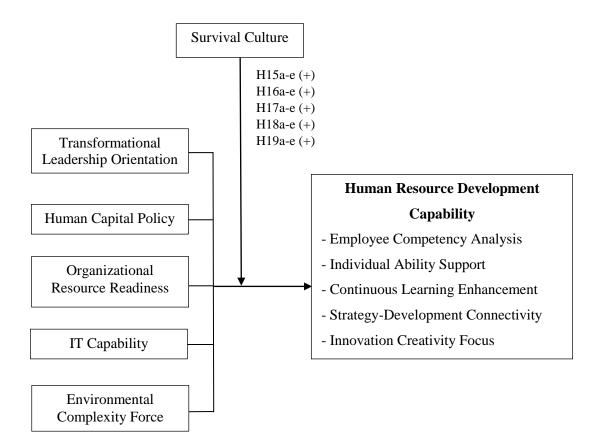
However, environmental complexity force has no significant relationship with individual ability support ($\beta_{72} = 0.103$, p > 0.10), continuous learning enhancement ($\beta_{92} = 0.062$, p > 0.10), and strategic-development connectivity ($\beta_{112} = 0.065$, p > 0.10). This result may imply that the response in the external factors of environmental complexity force are dependent on the organizational vision, mission and goal (Fui-Hoon Nah et al., 2010) including top management support (Osman, Tusuff, Tang, & Jafari, 2006), resource allocation, organizational culture, decision mechanisms, and structure (Razmi et al., 2008) that will engage in the human resource development department. **Therefore, hypotheses 14b, 14c and 14 d are not supported.** Summarily, environmental complexity is not related to individual ability support, continuous learning enhancement, and strategic-development connectivity.

Moreover, the results of the power of indication illustrate that the adjusted R-square are between 0.599 and 0.737, F-statistic tests are between 27.679 and 50.933, Durbin-Watson scores are between 2.028 and 2.181 (which there is a range of 1.50 to 2.50) (Duebin & Watson, 1971), and the maximum VIF is 5.920.

Additionally, the results of control variables indicate that firm size (number of employees) have no significant effect on all five dimensions of human resource development capability consisting of employee competency analysis ($\beta_{53} = 0.091$, p > 0.10), individual ability support ($\beta_{73} = 0.075$, p > 0.10), continuous learning enhancement ($\beta_{93} = -0.044$, p > 0.10), strategic-development connectivity ($\beta_{113} = 0.127$, p > 0.10), and innovation creativity focus ($\beta_{133} = -0.125$, p > 0.10). The result can be interpreted that human resource development capability is not influenced by firm size. The other control variable is business ownership, which has no significant effect on all five dimensions of human resource development capability consisting of employee competency analysis ($\beta_{54} = -0.189$, p > 0.10), individual ability support ($\beta_{74} = -0.024$, p > 0.10), continuous learning enhancement ($\beta_{94} = 0.023$, p > 0.10) and innovation creativity focus ($\beta_{134} = 0.033$, p > 0.10). This exclude the result of equation 15 which shows that business ownership has negative and significant relationship with strategicdevelopment connectivity ($\beta_{114} = -0.264$, p < 0.01). The results can be interpreted that the ownership of a manufacturing firm is related to human resource performance by which company-owned units have a higher human resource management intensity than franchised units (Brand & Croonen, 2010; Chandler & McEvoy, 2000). Summarily, firm size and most of business ownership are not significantly related to all five dimensions of human resource development capability, excluding business ownership that is related to strategic-development connectivity.

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Figure 9: The Moderating Role of Survival Culture on the Relationships among Human Resource Development Capability, Transformational Leadership Orientation, Human Capital Policy, Organizational Resource Readiness, Information Technology Capability and Environmental Complexity Force



The Moderating Effect of Survival Culture

The survival culture is posited as the moderator in this research in order to test the moderating effects of survival culture that influences the relationship between five antecedent variables and each dimension of human resource development capability. These relationships are proposed as Hypotheses 15(a-e)-19(a-e), and in regression equations 10, 12, 14, 16 and 18 that are shown in Figure 9.

The correlation coefficients between survival culture and five dimensions of human resource development capability are illustrated in Table 12 consisting of employee competency analysis (r = 0.692, p < 0.01), individual ability support (r = 0.734, p < 0.01), continuous learning enhancement (r = 0.790, p < 0.01), strategic-

development connectivity (r = 0.780, p < 0.01), and innovation creativity focus (r = 0.779, p < 0.01). All pairs of survival culture and every dimension of human resource development capability are significant and less than 0.80 as recommended by Hair and colleagues (2010).

In the correlation with five antecedent variables, survival culture has a positive relationship with transformational leadership orientation (r = 0.769, p < 0.01), human capital policy (r = 0.785, p < 0.01), organizational resource readiness (r = 0.811, p < 0.01), information technology capability (r = 0.865, p < 0.01), and environmental complexity force (r = 0.695, p < 0.01). Most correlations are less than 0.80 as recommended by Hair and colleagues (2010), exceeding the effects of survival culture on organizational resource readiness and information technology capability. However, the value of VIF is 5.255 (ORR), and 5.300 (ITC), as show in Appendix D, Table D3, which is lower than the cut-off value of 10. Therefore, the multicollinearity problem is irrelevant in this research.

Table 15: Result of Regression Analysis for the Effects of Moderator of Relationship between Transformational Leadership Orientation, Human Capital Policy, Organizational Resource Readiness, IT Capability, Environmental Complexity Force and Human Resource Development Capability

| | | Dep | endent Varia | bles | |
|-----------------------------------|----------|----------|--------------|----------|----------|
| | ECA | IAS | CLE | SDC | ICF |
| Independent Variables | H15-19a | H15-19b | H15-19c | H15-19d | H15-19e |
| _ | Equation | Equation | Equation | Equation | Equation |
| | 10 | 12 | 14 | 16 | 18 |
| Transformational Leadership | 0.231** | 0.058 | 0.292** | 0.242** | -0.068 |
| Orientation (TLO) | (0.120) | (0.117) | (0.121) | (0.099) | (0.115) |
| Human Capital Policy (HCP) | 0.092 | 0.122 | -0.104 | 0.227** | 0.057 |
| | (0.133) | (0.130) | (0.134) | (0.110) | (0.128) |
| Organizational Resource Readiness | 0.339** | 0.203* | 0.179 | 0.092 | 0.243** |
| (ORR) | (0.150) | (0.122) | (0.126) | (0.103) | (0.120) |
| Information Technology Capability | 0.239** | 0.249** | 0.304** | 0.203** | 0.154 |
| (ITC) | (0.126) | (0.123) | (0.127) | (0.104) | (0.120) |
| Environmental Complexity Force | 0.158* | 0.110 | 0.079 | 0.069 | 0.151* |
| (ECF) | (0.090) | (0.088) | (0.388) | (0.074) | (0.086) |
| Survival Culture (SVC) | 0.059 | 0.143 | 0.127 | 0.149 | 0.360*** |
| | (0.125) | (0.122) | (0.126) | (0.103) | (0.120) |
| TLOxSVC | -0.116 | -0.049 | -0.114 | 0.015 | -0.112 |
| | (0.131) | (0.128) | (0.132) | (0.108) | (0.126) |
| HCPxSVC | 0.059 | 0.101 | 0.115 | -0.003 | -0.001 |
| | (0.146) | (0.143) | (0.147) | (0.121) | (0.140) |
| ORRxSVC | 0.150** | 0.313** | -0.106 | 0.031 | 0.067 |
| | (0.089) | (0.131) | (0.135) | (0.111) | (0.129) |
| ITCxSVC | 0.306*** | 0.295** | 0.091 | -0.015 | -0.135 |
| | (0.123) | (0.120) | (0.124) | (0.101) | (0.118) |
| ECFxSVC | 0.001 | 0.01 | 0.062 | 0.080 | 0.248*** |
| | (0.097) | (0.095) | (0.098) | (0.080) | (0.093) |
| Firm Size (FS) | 0.091 | 0.063 | -0.034 | 0.120 | -0.094 |
| | (0.129) | (0.126) | (0.130) | (0.107) | (0.124) |
| Ownership (OS) | -0.170 | -0.015 | 0.026 | -0.231** | 0.066 |
| | (0.122) | (0.119) | (0.123) | (0.100) | (0.117) |
| Adjusted R ² | 0.806 | 0.624 | 0.597 | 0.737 | 0.633 |
| F-Statistic | 16.027 | 16.957 | 15.261 | 27.912 | 17.599 |
| Durbin-Watson | 2.072 | 2.108 | 2.204 | 2.244 | 2.139 |
| Max VIF | 8.293 | 8.293 | 8.293 | 8.293 | 8.293 |
| | | | 1 | 1 | |

Beta coefficients with standard in parenthesis. ***p < 0.01, **p < 0.05, *p < 0.1

From the result of the regression analysis in Table 15, the moderating effect of survival culture on the relationship among five antecedents and each of five dimensions of human resource development capability are as follows. Firstly, survival culture has no significant moderating effects on the relationship between transformational leadership orientation and employee competency analysis ($\beta_{61} = -0.116$, p > 0.10), individual ability support ($\beta_{81} = -0.049$, p > 0.10), continuous learning enhancement $(\beta_{101} = -0.114, p > 0.10)$, strategic-development connectivity $(\beta_{121} = 0.015, p > 0.10)$, and innovation creativity focus ($\beta_{141} = -0.112$, p > 0.10). The finding is consistent with previous research in that the learning and adaptation culture are not significant in a moderating role in relationships between transformational leadership with job and appraisal performance, skill development, learning organization and career development (Froehlich, Segers, & Bossche, 2014). Therefore, hypotheses 15a, 15b, 15c, 15d, and 15e are not supported. Summarily, survival culture does not moderate the relationships between transformational leadership orientation with employee competency analysis, individual ability support, continuous learning enhancement, strategic-development connectivity, and innovation creativity focus.

Secondly, survival culture has no significant moderating effects on the relationship between human capital policy and employee competency analysis $(\beta_{62} = 0.059, p > 0.10)$, individual ability support $(\beta_{82} = 0.101, p > 0.10)$, continuous learning enhancement $(\beta_{102} = 0.115, p > 0.10)$, strategic-development connectivity $(\beta_{122} = -0.003, p > 0.10)$, and innovation creativity focus $(\beta_{142} = -0.001, p > 0.10)$. The finding is consistent with previous research in that there are culture differences within any global organization which culture, values, or norms develop from, or are strengthened through, successes of work groups and employees within the firm (Singh, 2011). Thus, the culture difference of parent companies in terms of human capital policy and subsidiary firms may cause inconsistency of operation. Moreover, the implementation of human resource development depends on consistency and aligns between mission, vision and policy of an organization and human resource development systems (Yorke & Barto, 2013). **Therefore, hypotheses 16a, 16b, 16c, 16d, and 16e are not supported.** Briefly, survival culture does not moderate the relationships between human capital policy and employee competency analysis, individual ability

support, continuous learning enhancement, strategic-development connectivity, and innovation creativity focus.

Thirdly, survival culture has significant moderating effects on relationships between organizational resource readiness with employee competency analysis ($\beta_{63} = 0.150$, p < 0.05), and individual ability support ($\beta_{83} = 0.313$, p < 0.05). The finding is consistent with previous research in that survival culture affects human resource management and performance of the project team (Kappos & Rivard, 2008). The efficiency of cross-cultural training is based on human capital management (Rodrigues, Bu, & Min, 2000). The evaluation of training local managers could be the establishment of corporate culture (Zhao, 2005). **Therefore, hypotheses 17a and 17b are supported.** Summarily, survival culture moderates the relationship between organizational resource readiness with employee competency analysis and individual ability support.

However, survival culture has no significant moderating effects on the relationship between organizational resource readiness with continuous learning enhancement ($\beta_{103} = -0.106$, p > 0.10), strategic-development connectivity ($\beta_{123} = 0.031$, p > 0.10), and innovation creativity focus ($\beta_{143} = 0.067$, p > 0.10). The finding is consistent with previous research in that the implementation of resources in the organization should be moderated by appropriate culture. The successful implementation of resource fulfilment requires a corporate culture that emphasizes the value of sharing common goals over individual pursuits and the value of trust between partners, employees, managers and corporations (Razmi et al., 2008). **Therefore, hypotheses 17c, 17d and 17e are not supported.** Briefly, survival culture does not moderate the relationships between organizational resource readiness and continuous learning enhancement, strategic-development connectivity, and innovation creativity focus.

Fourthly, survival culture has a significant moderating effect on the relationship between information technology capability and employee competency analysis ($\beta_{64} = 0.306$, p < 0.01), and individual ability support ($\beta_{84} = 0.295$, p < 0.05). The finding is consistent with previous research in that information technology supports several parts of human resource development such as in technique, learning, managerial and interpersonal skills (Couger et al., 1995). Moreover, organizational culture also

moderates information technology capability and its implementation (Zhang & Tansuhaj, 2007). **Therefore, hypotheses 18a and 18b are supported.** Summarily, survival culture moderates the relationship between employee competency analysis and individual ability support.

However, survival culture has no significant moderating effects on the relationship between organizational resource readiness and continuous learning enhancement ($\beta_{104} = 0.091$, p > 0.10), strategic-development connectivity ($\beta_{124} = -0.015$, p > 0.10), and innovation creativity focus ($\beta_{144} = -0.135$, p > 0.10). The finding is consistent with previous research in that the implementation of resource and information infrastructure in the organization should be moderated by appropriate culture (Razmi et al., 2008). The successful implementation of information technology capability requires a corporate culture that emphasizes the value of sharing, analyzing and presenting relevant information over individual pursuits and between partners, employees, managers and corporations (Bhatt, 2000). **Therefore, hypotheses 18c, 18d and 18e are not supported.** Briefly, survival culture does not moderate the relationship between information technology capability and continuous learning enhancement, strategic-development connectivity, and innovation creativity focus.

Finally, survival culture has a significant moderating effect on the relationship between environmental complexity force and innovation creativity focus ($\beta_{145} = 0.248$, p < 0.01). The finding is consistent with previous research in that organizational culture is the major reason behind the failures of knowledge management initiatives and it is important for successful knowledge management (Pillania, 2006). It impacts the knowledge exchange, the combinative interaction, and the perceived value of firm members (Tseng, 2010). Thus it has a significant effect on knowledge creation (Wang, Su, & Yang, 2011). **Therefore, hypothesis 19e is supported.** In sum, survival culture moderates the relationship between environmental complexity force and innovation creativity focus.

However, the results also present the non-significance of the moderating effects of survival culture on the relationship between environmental complexity force with employee competency analysis ($\beta_{65} = 0.001$, p > 0.10), individual ability support ($\beta_{85} = 0.01$), p > 0.10), continuous learning enhancement ($\beta_{105} = 0.062$, p > 0.10), and strategic-development connectivity ($\beta_{145} = 0.080$, p > 0.10). The finding may imply that

the organizational culture is not consistent with the external factor of environmental complexity force because the utilization of the external factor of environmental complexity force should be moderated by appropriate culture. The successful utilization of an external situation requires a corporate culture that emphasizes the flexibility, adaptation, and dynamic capability between employees, managers and corporations (Razmi et al., 2008). **Therefore, hypotheses 19a, 19b, 19c and 19e are not supported.** Summarily, survival culture does not moderate the relationship between environmental complexity force with employee competency analysis, individual ability support, continuous learning enhancement, and strategic-development connectivity.

Moreover, the result of the power of indication is illustrated in that the adjusted R-square are between 0.597 and 0.806, F-statistic tests are between 15.261 and 27.912, Durbin-Watson scores are between 2.072 and 2.244 (which there is in range of 1.50 to 2.50) (Duebin & Watson, 1971), and the maximum VIF is 8.293.

Moreover, the results of control variables indicate that firm size (number of employees) have no significant effect on all five dimensions of human resource development capability consisting of employee competency analysis ($\beta_{66} = 0.091$, p > 0.10), individual ability support ($\beta_{86} = 0.063$, p > 0.10), continuous learning enhancement ($\beta_{106} = -0.034$, p > 0.10), strategic-development connectivity ($\beta_{126} =$ 0.120, p > 0.10), and innovation creativity focus ($\beta_{146} = -0.094$, p > 0.10). The results can be interpreted that human resource development capability is not influenced by firm size. The other control variable is business ownership, which has no significant effect on all five dimension of human resource development capability, consisting of employee competency analysis ($\beta_{67} = -0.170$, p > 0.10), individual ability support $(\beta_{87} = -0.015, p > 0.10)$, continuous learning enhancement $(\beta_{107} = 0.026, p > 0.10)$ and innovation creativity focus ($\beta_{147} = 0.066$, p > 0.10). This excludes the result of equation 16 which shows that business ownership has a negative and significant relationship with strategic-development connectivity ($\beta_{127} = -0.231$, p < 0.01). The result can be interpreted that the ownership of the manufacturing firm is related to human resource performance by which company-owned units have a higher human resource management intensity than franchised units (Brand & Croonen, 2010; Chandler & McEvoy, 2000). On the other hand, the result in Table 14 illustrates that survival culture has no direct effect on all five dimensions of human resource development capability

(employee competency analysis, individual ability support, continuous learning enhancement, strategic-development connectivity and innovation creativity focus).

Summary

This chapter presents the results of regression analysis in this research. It consists of two parts. The first indication is that the respondent and sample characteristics are frequency and percentage. The correlation between all the variables are analyzed and presented in a matrix correlation. Descriptive statistics mean and standard deviation are shown in this section. Another highlight of the results is a discussion of hypothesis testing. The results reveal that the characteristics of human resource development system in terms of strategic-development connectivity and innovation creativity focus (as dimension 4 and 5, respectively), are direct, important determinants given to higher employee commitment, operational development, business productivity, firm competitiveness, and firm success. Interestingly, it can be stated that human resource development capability is an additional influence on employee commitment to earn greater positive outcomes. Although, employee competency analysis influences only employee commitment and the other two of dimensions of individual ability support and continuous learning enhancement they have no influence on organizational outcome. However, there may be effects on other capabilities of the organization, and indirect effects on organizational outcome. Employee commitment, operational development and business productivity strongly influence to firm competitiveness and firm success. Moreover, the antecedents of human resource development capability (transformational leadership orientation, human capital policy, organizational resource readiness, information technology capability, and environmental complexity force) seem to be the most influential determinates of human resource development capability. For the moderating role of survival culture, it does not play a moderating role very well in order to impact the relationships among the antecedents and each dimension of human resource development capability. However, it moderated well on organizational resource readiness and information technology capability with employee competency analysis and individual ability support, including on environmental complexity force and innovation creativity focus. Summarily, hypotheses

4, 5, 6, 7, 8, 9 and 13 are fully and significantly supported, Hypotheses 1, 10, 11, 12, 14, 17, 18 and 19 are partially supported, and Hypotheses 2, 3, 15 and 16 are not significantly supported. This research provides the summary of the results of hypotheses testing as presented in Table 15.

The next chapter illustrates the conclusion of the research which provides a summary of the entire research. Additionally, the contributions, limitations, and research directions for further research are also discussed.

| Hypotheses | Description of Hypothesized Relationships | Results |
|------------|--|-----------|
| H1a | Employee competency analysis is positively related to | Supported |
| | employee commitment. | |
| H1b | Employee competency analysis is positively related to | Not |
| | operational development. | Supported |
| H1c | Employee competency analysis is positively related to | Not |
| | business productivity. | Supported |
| H1d | Employee competency analysis is positively related to | Not |
| | firm competitiveness. | Supported |
| H1e | Employee competency analysis is positively related to | Not |
| | firm success. | Supported |
| H2a | Individual ability support is positively related to employee | Not |
| | commitment. | Supported |
| H2b | Individual ability support is positively related to | Not |
| | operational development. | Supported |
| H2c | Individual ability support is positively related to business | Not |
| | productivity. | Supported |
| H2d | Individual ability support is positively related to firm | Not |
| | competitiveness. | Supported |
| H2e | Individual ability support is positively related to firm | Not |
| | success. | Supported |

Table 16: A Summary of the Result of Hypotheses Testing



| Hypotheses | Description of Hypothesized Relationships | Results |
|------------|--|-----------|
| НЗа | Continuous learning enhancement is positively related to | Not |
| | employee commitment. | Supported |
| H3b | Continuous learning enhancement is positively related to | Not |
| | operational development. | Supported |
| H3c | Continuous learning enhancement is positively related to | Not |
| | business productivity. | Supported |
| H3d | Continuous learning enhancement is positively related to | Not |
| | firm competitiveness. | Supported |
| H3e | Continuous learning enhancement is positively related to | Not |
| | firm success. | Supported |
| H4a | Strategy-development connectivity is positively related to | Supported |
| | employee commitment. | |
| H4b | Strategy-development connectivity is positively related to | Supported |
| | operational development. | |
| H4c | Strategy-development connectivity is positively related to | Supported |
| | business productivity. | |
| H4d | Strategy-development connectivity is positively related to | Supported |
| | firm competitiveness. | |
| H4e | Strategy-development connectivity is positively related to | Supported |
| | firm success. | |
| H5a | Innovation creativity focus is positively related to | Supported |
| | employee commitment. | |
| H5b | Innovation creativity focus is positively related to | Supported |
| | operational development. | |
| H5c | Innovation creativity focus is positively related to | Supported |
| | business productivity. | |
| H5d | Innovation creativity focus is positively related to firm | Supported |
| | competitiveness. | |

Table 16: A Summary of the Result of Hypotheses Testing (continued)

| Hypotheses | Description of Hypothesized Relationships | Results |
|------------|---|-----------|
| H5e | Innovation creativity focus is positively related to firm | Supported |
| | success. | |
| Нба | Employee commitment is positively related to business | Supported |
| | productivity. | |
| H6b | Employee commitment is positively related to firm | Supported |
| | competitiveness. | |
| H7a | Operational development is positively related to business | Supported |
| | productivity. | |
| H7b | Operational development is positively related to firm | Supported |
| | competitiveness. | |
| H8 | Business productivity is positively related to firm | Supported |
| | competitiveness. | |
| H9 | Firm competitiveness is positively related to firm success. | Supported |
| H10a | Transformational leadership orientation is positively | Supported |
| | related to employee competency analysis. | |
| H10b | Transformational leadership orientation is positively | Not |
| | related to individual ability support. | Supported |
| H10c | Transformational leadership orientation is positively | Supported |
| | related to continuous learning enhancement. | |
| H10d | Transformational leadership orientation is positively | Supported |
| | related to strategy-development connectivity. | |
| H10e | Transformational leadership orientation is positively | Not |
| | related to innovation creativity focus. | Supported |
| H11a | Human capital policy is positively related to employee | Not |
| | competency analysis. | Supported |
| H11b | Human capital policy is positively related to individual | Not |
| | ability support. | Supported |

Table 16: A Summary of the Result of Hypotheses Testing (continued)

| Hypotheses | Description of Hypothesized Relationships | Results |
|------------|--|-----------|
| H11c | Human capital policy is positively related to continuous | Not |
| | learning enhancement. | Supported |
| H11d | Human capital policy is positively related to strategy- | Supported |
| | development connectivity. | |
| H11e | Human capital policy is positively related to innovation | Not |
| | creativity focus. | Supported |
| H12a | Organizational resource readiness is positively related to | Not |
| | employee competency analysis. | Supported |
| H12b | Organizational resource readiness is positively related to | Supported |
| | individual ability support. | |
| H12c | Organizational resource readiness is positively related to | Supported |
| | continuous learning enhancement. | |
| H12d | Organizational resource readiness is positively related to | Not |
| | strategy-development connectivity. | Supported |
| H12e | Organizational resource readiness is positively related to | Supported |
| | innovation creativity focus. | |
| H13a | IT capability is positively related to employee | Supported |
| | competency analysis. | |
| H13b | IT capability is positively related to individual ability | Supported |
| | support. | |
| H13c | IT capability is positively related to continuous learning | Supported |
| | enhancement. | |
| H13d | IT capability is positively related to strategy-development | Supported |
| | connectivity. | |
| H13e | IT capability is positively related to innovation creativity | Supported |
| | focus. | |
| | Environmental complexity force is positively related to | Supported |
| H14a | Environmental complexity force is positively felated to | Supported |

Table 16: A Summary of the Result of Hypotheses Testing (continued)

| Hypotheses | Description of Hypothesized Relationships | Results |
|------------|---|-----------|
| H14b | Environmental complexity force is positively related to | Not |
| | individual ability support. | Supported |
| H14c | Environmental complexity force is positively related to | Not |
| | continuous learning enhancement. | Supported |
| H14d | Environmental complexity force is positively related to | Not |
| | strategy-development connectivity. | Supported |
| H14e | Environmental complexity force is positively related to | Supported |
| | innovation creativity focus. | |
| H15a | Survival culture will positively moderate the relationships | Not |
| | between transformational leadership orientation and | Supported |
| | employee competence analysis. | |
| H15b | Survival culture will positively moderate the relationships | Not |
| | between transformational leadership orientation and | Supported |
| | individual ability support. | |
| H15c | Survival culture will positively moderate the relationships | Not |
| | between transformational leadership orientation and | Supported |
| | continuous learning enhancement. | |
| H15d | Survival culture will positively moderate the relationships | Not |
| | between transformational leadership orientation and | Supported |
| | strategy-development connectivity. | |
| H15e | Survival culture will positively moderate the relationships | Not |
| | between transformational leadership orientation and | Supported |
| | innovation creativity focus. | |
| H16a | Survival culture will positively moderate the relationships | Not |
| | between human capital policy and employee competence | Supported |
| | analysis. | |

Table 16: A Summary of the Result of Hypotheses Testing (continued)

| Hypotheses | Description of Hypothesized Relationships | Results |
|------------|---|-----------|
| H16b | Survival culture will positively moderate the relationships | Not |
| | between human capital policy and individual ability | Supported |
| | support. | |
| H16c | Survival culture will positively moderate the relationships | Not |
| | between human capital policy and continuous learning | Supported |
| | enhancement. | |
| H16d | Survival culture will positively moderate the relationships | Not |
| | between human capital policy and strategy-development | Supported |
| | connectivity. | |
| H16e | Survival culture will positively moderate the relationships | Not |
| | between human capital policy and innovation creativity | Supported |
| | focus. | |
| H17a | Survival culture will positively moderate the relationships | Supported |
| | between organizational resource readiness and employee | |
| | competence analysis. | |
| H17b | Survival culture will positively moderate the relationships | Supported |
| | between organizational resource readiness and individual | |
| | ability support. | |
| H17c | Survival culture will positively moderate the relationships | Not |
| | between organizational resource readiness and continuous | Supported |
| | learning enhancement. | |
| H17d | Survival culture will positively moderate the relationships | Not |
| | between organizational resource readiness and strategy- | Supported |
| | development connectivity. | |
| H17e | Survival culture will positively moderate the relationships | Not |
| | between organizational resource readiness and innovation | Supported |
| | creativity focus. | |

Table 16: A Summary of the Result of Hypotheses Testing (continued)

| Hypotheses | Description of Hypothesized Relationships | Results |
|------------|---|-----------|
| H18a | Survival culture will positively moderate the relationships | Supported |
| | between IT capability and employee competence analysis. | |
| H18b | Survival culture will positively moderate the relationships | Supported |
| | between IT capability and individual ability support. | |
| H18c | Survival culture will positively moderate the relationships | Not |
| | between IT capability and continuous learning | Supported |
| | enhancement. | |
| H18d | Survival culture will positively moderate the relationships | Not |
| | between IT capability and strategy-development | Supported |
| | connectivity. | |
| H18e | Survival culture will positively moderate the relationships | Not |
| | between IT capability and innovation creativity focus. | Supported |
| H19a | Survival culture will positively moderate the relationships | Not |
| | between environmental complexity force and employee | Supported |
| | competence analysis. | |
| H19b | Survival culture will positively moderate the relationships | Not |
| | between environmental complexity force and individual | Supported |
| | ability support. | |
| H19c | Survival culture will positively moderate the relationships | Not |
| | between environmental complexity force and continuous | Supported |
| | learning enhancement. | |
| H19d | Survival culture will positively moderate the relationships | Not |
| | between environmental complexity force and strategy- | Supported |
| | development connectivity. | |
| H19e | Survival culture will positively moderate the relationships | Supported |
| | between environmental complexity force and innovation | |
| | creativity focus. | |

Table 16: A Summary of the Result of Hypotheses Testing (continued)

CHAPTER V

CONCLUSION

The previous chapter reveals the results and discussion that involve respondent characteristics and descriptive statistics, correlation analysis, hypotheses testing, and the results of regression analysis. Therefore, this chapter concludes the findings, comprising the summary of the findings and hypothesis testing, theoretical and managerial contributions; and then concludes with a discussion of the research and limitations and suggestions for future research.

Summary of Results

This research investigates the effects of human resource development capability on employee commitment, operational development, business productivity, firm competitiveness, and firm success of auto parts businesses in Thailand. Moreover, transformational leadership orientation, human capital policy, organizational resource readiness, information technology capability, and environmental complexity force are assigned as the antecedents of human resource development capability. The moderating effects of survival culture are also tested. Survival culture has been requested as moderator, which moderate the relationship between each of five dimension of human resource development capability and its antecedents.

It can be stated that the key research question is, "How does human resource development capability influence firm success?" In detail, there are six specific research questions as follows: 1) How does each dimension of the five dimensions of human resource development capability have an effect on employee commitment, business productivity, operational development, firm competitiveness and firm success? 2) How do employee commitment and operational development have an influence on business productivity? 3) How do employee commitment, operational development and business productivity relate to firm competitiveness? 4) How does firm competitiveness have an influence on firm success? 5) How do transformational leadership orientation, human capital policy, organizational resource readiness, IT capability, environmental

complexity force have an impact on each of the five dimensions of human resource development capability? 6) How does survival culture moderate the influence of leadership orientation, human capital policy, organizational resource readiness, IT capability, environmental complexity force on each of the five dimensions of human resource development capability?

The main purpose of this research is to investigate the relationship among human resource development capability and firm success. The specific research purposes are as follows: 1) to investigate the relationship among the five dimensions of human resource development capability (employee competency analysis, individual ability support, continuous learning enhancement, strategy-development connectivity, innovation creativity focus) on employee commitment, business productivity, operational development, firm competitiveness and firm success, 2) to examine the influences of employee commitment and operational development on business productivity, 3) to test the impacts of employee commitment, operational development and business productivity on firm competitiveness, 4) to investigate the relationship between firm competitiveness and firm success, 5) to determine the relationship among transformational leadership orientation, human capital policy, organizational resource readiness, IT capability, environmental complexity force and each of the five dimension of human resource development capability and 6) to test the moderating effect of survival culture that has influenced on the relationship among transformational leadership orientation, human capital policy, organizational resource readiness, IT capability, environmental complexity force and each of the five dimension of human resource development capability.

This research applies two theories to draw the conceptual model, including the human capital and contingency theories in explaining the relationship and phenomena. For research investigation, the auto parts businesses in Thailand are selected as the research population due to the context that it is of one of ten industries that drive the economic growth of Thailand for the future. The population sample of this research is provided by the Thai Auto Parts Manufacturers Association, accessed in December 2016. For the data collection, the self-administrated questionnaire was employed to gather the data. Therefore, 618 questionnaires were sent to human resource directors and human resource managers, who were the key informants of Thai auto parts

businesses. The mail survey resulted in 155 returned mailings with 128 that were usable; a 21.59 % response rate. Furthermore, the research instrument was developed from the previous research and literature review. To evaluate, all measures of the scale are considered appropriate for further analysis and are accepted for validity and reliability by a pre-test. Statistics used in this research were applied to multiple regression analysis for the hypotheses testing.

According to the first specific research question and research objective, the findings indicate that strategic-development connectivity and innovation creativity focus have a positive relationship with employee commitment, operational development, business productivity, firm competitiveness, and firm success. Interestingly, employee competency analysis has a positive relationship with only employee commitment and no relationship with operational development, business productivity, firm competitiveness, and firm success. Moreover, individual ability support and continuous learning enhancement have no relationship with all of its consequences. Therefore, the relationships among each dimension of human resource development capability and its consequences are based on Hypothesis 1 that is partially supported, Hypotheses 2 and 3 that are not supported, and Hypotheses 4 and 5 that are fully supported.

The second, third and fourth specific research question and research objective, the findings also illustrate the result among consequences that both employee commitment and operational development have a significant, positive effect on business productivity. Moreover, employee commitment, operational development, and business productivity have significant, positive effect on firm competitiveness. Finally, firm competitiveness has significant positive effects on firm success. Therefore, Hypotheses 6, 7, 8 and 9 that are fully supported.

The fifth specific research question and research objective, in terms of the relationships among the antecedents and human resource development, the findings illustrated that transformational leadership orientation has a significant, positive effect on employee competency analysis, continuous learning enhancement and strategic-development connectivity. However, it fails to show a significant relationship effect on individual ability support and innovation creativity focus. Next, human capital policy has a significant, positive effect on only strategic-development connectivity, but it has

no effect on employee commitment, individual ability support, continuous learning enhancement, and innovation creativity focus. Moreover, organizational resource readiness has a significant, positive effect on individual ability support, continuous learning enhancement, and innovation creativity focus; but it has no significant relationship with employee commitment and strategic-development connectivity. Interestingly, information technology capability has a significant positive effect on all dimensions of human resource development capability consisting of employee competency analysis, individual ability support, continuous learning enhancement, strategic-development connectivity, and innovation creativity focus. Finally, environmental complexity force has a significant, positive effect on employee competency analysis and innovation creativity focus. However, environmental complexity force has no significant effect on individual ability support, continuous learning enhancement, and strategic-development connectivity. Therefore, hypothesis 13 is fully supported and Hypotheses 10, 11, 12 and 14 are partially supported.

Finally, the sixth specific research question and research objective, the results shown that the moderating effects of survival culture influence on relationship between organizational resource readiness and information technology with employee competency analysis and individual ability support. Survival culture also moderate the relationship between environmental complexity force and innovation creativity focus. Therefore, Hypotheses 15, 16 and 17 are partially supported. Accordingly, the summary of all research questions and results is included in Table 17 and Figure 10 below:



| Research Questions | Hypotheses | Results | Conclusions |
|------------------------------|------------|---|-------------|
| Key research question: | | | |
| How human resource | 1-5e | Two of five of human resource | Partial |
| development capability | | development have a direct influence on | supported |
| influences firm success? | | firm success. | |
| Specific Research | | | |
| Question: | | | |
| (1) How does each | 1-5a | - Employee competency analysis has the | Partial |
| dimension of the five | 1-5b | positive relationship with employee | supported |
| dimensions of human | 1-5c | commitment. | |
| resource development | 1-5d | - Strategic-development connectivity | |
| capability have an effect on | 1-5e | and innovation creativity focus have the | |
| employee commitment, | | positive relationships with employee | |
| business productivity, | | commitment, operational development, | |
| operational development, | | business productivity, firm | |
| firm competitiveness and | | competitiveness, and firm success. | |
| firm success? | | - Individual ability support and | |
| | | continuous learning enhancement have | |
| | | not relationships with employee | |
| | | commitment, operational development, | |
| | | business productivity, firm | |
| | | competitiveness, and firm success. | |
| (2) How do employee | | Employee commitment and operational | Fully |
| commitment and operational | 6-7a | development have the positive | supported |
| development have an | | relationships with business productivity. | |
| influence on business | | | |
| productivity? | | | |
| (3) How do employee | | Employee commitment, operational | Fully |
| commitment, operational | 6-7b | development and business productivity | supported |
| development and business | and 8 | have the positive relationship with firm | |
| productivity relate to firm | | competitiveness. | |
| competitiveness? | | | |
| (4) How does firm | | Firm competitiveness have the positive | Strongly |
| competitiveness have an | 9 | relationship with firm success. | supported |
| influence on firm success? | | | |

| Table 17: Summary of the Result and Conclusions of all Hypotheses Testing |
|---|
|---|



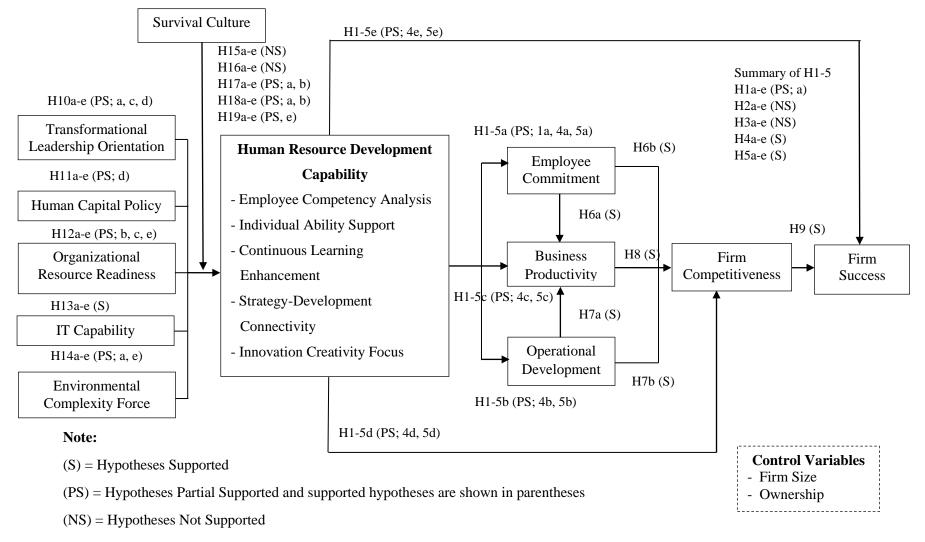
| Table 17: Summary of the Result and | Conclusions of all Hypotheses Testing |
|-------------------------------------|---------------------------------------|
| (continued) | |

| Research Questions | Hypotheses | Results | Conclusions |
|---------------------------|------------|--|-------------|
| (5) How do | | - Transformational leadership orientation | Partially |
| transformational | 10а-е | have the positive relationships with | supported |
| leadership orientation, | 11a-e | employee competency analysis, continuous | |
| human capital policy, | 12а-е | learning enhancement and strategic- | |
| organizational resource | 13а-е | development connectivity, but it have not | |
| readiness, IT capability, | 14а-е | the relationships with individual ability | |
| environmental | | support and innovation creativity focus. | |
| complexity force have | | - Human capital policy has the positive | |
| an impact on each of the | | relationships with strategic-development | |
| five dimension of human | | connectivity, but it have not the relationship | |
| resource development | | with employee competency analysis, | |
| capability? | | individual ability support, continuous | |
| | | learning enhancement, and innovation | |
| | | creativity focus. | |
| | | - Organizational resource readiness have the | |
| | | positive relationships with individual ability | |
| | | support, continuous learning enhancement | |
| | | and innovation creativity focus, but it have | |
| | | not the relationship with employee | |
| | | competency analysis and strategic- | |
| | | development connectivity. | |
| | | - Information technology capability have | |
| | | the positive relationships with all of human | |
| | | resource development capability. | |
| | | - Environmental complexity force have the | |
| | | positive relationships with employee | |
| | | competency analysis and innovation | |
| | | creativity focus, but it have not the | |
| | | relationships with individual ability | |
| | | supports, continuous learning enhancement, | |
| | | and strategic-development connectivity. | |
| | | | |

| Research Questions | Hypotheses | Results | Conclusions |
|----------------------------|------------|--|-------------|
| (6) How does survival | | - Survival culture moderates the | Partially |
| culture moderate the | 15а-е | relationship between organizational | supported |
| influence of leadership | 16а-е | resource readiness and information | |
| orientation, human capital | 17а-е | technology with employee competency | |
| policy, organizational | 18а-е | analysis and individual ability support. | |
| resource readiness, IT | 19а-е | Survival culture also moderate the | |
| capability, environmental | | relationship between environmental | |
| complexity force on each | | complexity force and innovation creativity | |
| of the five dimension of | | focus. | |
| human resource | | - Survival culture not moderates the | |
| development capability? | | relationships between leadership | |
| | | orientation and human capital policy, and | |
| | | it also not moderate the relationship | |
| | | between environmental complexity force | |
| | | with employee competency analysis, | |
| | | individual ability support, continuous | |
| | | learning enhancement, and strategic- | |
| | | development connectivity. | |
| | | | |

Table 17: Summary of the Result and Conclusions of all Hypotheses Testing (continued)

Figure 10: Summary of Hypothesis Testing Results



Theoretical and Managerial Contribution

Theoretical Contribution

This research aims to investigate the relationships among human resource development capability, employee commitment, operational development, business productivity, firm competitiveness, and firm success in combination with the antecedent variables and the moderating effects as shown in Figure 1. Interestingly, the core theoretical contribution relates to conceptualizing the comprehensive view of human resource development capability as a multidimensional construct, which are newlydeveloped constructs and dimensions, differentiating from prior human resource development literature. The processes of clarifying the linkage of the conceptual framework were based on two theories, the human capital and contingency theories. This empirical research sensitizes and explains theories associated with how a business firm achieves and fulfills its goals and, at the same time, maintains its sustained competitive advantage and superior performance in a radical business environment. It clarifies the nature of human resource development capability for future investigation. As a result, this research suggests three major theoretical contributions to the human resource development literature as follows:

Firstly, human resource development capability is the perfect combination of human resource development literature which consists of competency-based analysis, connatural management model, learning organization, strategic human resource development, and knowledge productivity. This research integrates the human capital and contingency theories to generate and explain the conceptual model and expand the boundaries of these theories. Relying on these two theories, firm competitiveness and firm success are subject to business capability in generating modern human resource development for industry. Similarly, this research demonstrated that human resource development capability is required to enhance firm competitiveness and firm success.

The concept of human capital is the sustainable source of competitive advantage. Unlike the resource-based view of the firm (RBV), human capital is the new paradigm that can explain how firms create and maintain their valuable human resources that lead to competitive advantage in an emerging dynamic business environment. Human capital consists of a set of specific and identifiable processes that allow the organization to add value to the human asset, and it can be used to compare and measure their value that leads to best management (Brooking, 2010). When a specific firm processes these sets of capability, human resource development capability, for example, will result in achieving sustainable competitive advantage. Likewise, the results of this research confirm the core attributes of human capital which lead a firm to achieve sustainable competitive advantage. As a consequence, human resource development capability is a firm capability that enhances firms; giving the ability to achieve its goal and, at the same time, maintain its superior performance and competitiveness. However, it might be too narrow to look at only endogenous determinants. The contingency theory posits that if the firm wants to survive or effectively perform business operations, then the organizational structure and process of a firm must with its contexts: firm characteristics, culture, business environment, market condition, and technology (Jiang et al., 2012; Yorke & Barto, 2013). The suitability between organizational exogenous and endogenous factors are deliberate organizational performance and success. Similarly, the results of this research confirm that the concept of the contingency theory appropriately explains the phenomenon among the antecedents, human resource development capability, and the moderating effect of survival culture.

Secondly, this research has helped to brighten the understanding under the concept beneath human resource development capability by proposing five newly-distinctive dimensions of human resource development capability comprising employee competency analysis, individual ability support, continuous learning enhancement, strategic-development connectivity, and innovation creativity focus. Especially, it has highlighted the importance of strategic-development connectivity and innovation creativity focus in empowering employee commitment, operational development, business productivity, firm competitiveness and, more importantly, firm success. Moreover, the primal mediating role of firm competitiveness between business productivity and firm success has been highlighted. This means that business productivity may play a major role in determining and promoting long-term firm successes.

Lastly, in the mission of promoting human resource development capability, this research suggested that information technology capability is the most influential effect on human resource development capability. However, the direct effects of transformational leadership orientation, organizational resource readiness and environmental complexity force on human resource development capability are also advertent.

Managerial Contribution

This research aspires to privilege human resource directors and human resource managers who have faced strong pressures of aggressive and volatile competition. Especially in a high-technology industry, as in auto parts businesses, firms are frequently forced to improve and develop their strategic alignment with the internal and external business environment. So, they can effectively provide firms with a source of sustainable competitive advantage and firm success.

Firstly, human resource directors and managers should focus on the management philosophy that promotes connecting between strategy level planning and human resource development system. Also, the firm should always be aware that humans are a valuable resource of the firm which should be given good, clear motivation and guidelines by a human resources department. The firm should have systematic and concrete planning of human resource development in both the present and future, and use human resources as a topic and issue to discuss in firm meetings continuously. This open working environment helps businesses tune-up with the consistency of strategy and human resource development. Moreover, human resource directors and managers should enhance sharing and utilizing the knowledge and experience of employees to create new working processes that favor business competitive advantage. Firms should enhance employees to have creative thinking in new things of operations and allocate an extreme budget to create, research and develop a new things which will help a firm operations to attain excellence. It also likely to increase employee commitment, operational development, business productivity, and firm competitiveness. Concentrating on human resource development capability can result in business success and performance in the long-run. However, human resource directors and managers must watch out for uncontrollable external effects, such as environmental complexity.

Secondly, the results can provide guidelines for the improvement and maintenance of firm competitiveness and firm success as a result of the implementation of human resource development capability, employee commitment, operational development, and business productivity. Thus, firms and human resource managers should be aware of the commitment of the employees because high employee commitment can enhance business productivity and firm competitiveness. Moreover, firms and human resource managers should provide important, continuous operational development because it promotes business productivity and firm competitiveness, which firm competitiveness has the greatest direct influence on firm success.

Thirdly, human resource directors and managers must pay attention to activities that support firms to succeed in human resource development, such as leadership that emphasize support and moderates the human resource development activities. Moreover, the policy that is consistent with human resource development and is linked to the strategy of an organization will cause more efficiency in employee development. There are ways to stimulate the employees in new processes in order to satisfy customer expectation and enhance working operations efficiency.

Fourthly, human resource directors and managers should facilitate their employees with substantial resources. The availability of resources in the organization is one of the most essential determinants of firm success. The appropriate resource allocation to human resource development is an important internal factor that promotes employee training and development activities. Firms should be continuously engrossed in technology, techniques and process development in operations. Moreover, information technology of the infrastructure in collecting, analyzing, storing, and presenting the relevant information is the crucial facility to support human resource development operations. The investment and enhancement in learning and follow-up of the development and changing of information technology will help firms to better apply information technology in the firm's operations.

Finally, the conceptual model in this research is not complicated, useful, and can be applied to other industries and also be used in other country and culture. Because concepts and theories that be used in this research have been studied from several industries and country. For example, concepts of competency-based analysis, connatural management approach, learning organization, strategic human resource development, and knowledge productivity. Therefore, the contribution of this research can be used in other context.

Limitations and Suggestions for Future Research

Limitations

In this research, there are four limitations as follows: Firstly, the single population in this research, the auto parts businesses in Thailand, including most of the respondents is over long periods of time in business (over 15 years). It may limit the generalizability of the research. Secondly, the relatively short period time of the data collection and analyze only took approximately 4 months. As a result, it is possible to claim that it has more appropriate research methodology that can examine and study this research. Thirdly, the newly-proposed dimensions of human resource development capability can be also re-proposed to fit the variety of each industry environment and condition. As well, as the antecedents would be fruitful to the literature to expand this research in future research. Lastly, the non-significance of moderating role of survival culture toward the success of the firm on organizational human resource development capability. However, the explanation and understanding of the moderating variable and its effects are still limited.

Suggestion for Future Research

According to methodological limitations, some suggestions for future research are provided as follows: Firstly, future research may employ other sampling populations with differentiation in types and characteristics, including age of business firm, in order to compare the results and outcomes; and at the same time, to gain more research credibility and confirm the generalizability of the research. Secondly, other research methodology may be employed to examine this conceptual framework of human resource development capability. For example, qualitative in-depth interviews may help to explore up-to-date points of view of reality from human resource directors and human resource managers. This qualitative methodology stimulates the whole picture and the comprehensive understanding of human resource development capability. Moreover, other statistical techniques like the structural equation modeling (SEM) may also highlight the hidden relationships among all constructs within the conceptual framework of human resource development capability. Thirdly, some interesting variables, employees, and firm capability may be added to the framework, which will encourage the understanding and greater explanation of employee roles in supporting the capability, performance and success of the organization. Fourthly, future research may be studied on the moderating effect of culture that is consistent with each antecedent of human resource development capability. Finally, this conceptual framework can be applied to comparison research between labor abundance country and capital abundance country because both are different in important of human resource. Therefore, it is interesting that the results will be from different cultures.



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APPENDICES



APPENDIX A

Respondent Characteristics



| Description | Categories | Frequency | Percentage |
|--------------------|-------------------------------|-----------|------------|
| Gender | Male | 58 | 45.31 |
| | Female | 70 | 54.69 |
| | Total | 128 | 100.00 |
| Age | Less than 30 years old | 6 | 4.69 |
| | 30-40 years old | 37 | 28.90 |
| | 41 - 50 years old | 57 | 44.53 |
| | More than 50 years old | 28 | 21.88 |
| | Total | 128 | 100.00 |
| Marital Status | Single | 31 | 24.22 |
| | Married | 89 | 69.53 |
| | Divorced/Separated | 8 | 6.25 |
| | Total | 128 | 100.00 |
| Level of Education | Bachelor's degree or lower | 73 | 57.03 |
| | Higher than Bachelor's degree | 55 | 42.97 |
| | Total | 128 | 100.00 |
| Work Experiences | Less than 5 years | 11 | 8.59 |
| | 5 – 10 years | 17 | 13.28 |
| | 11 – 15 years | 26 | 20.31 |
| | More than 15 years | 74 | 57.82 |
| | Total | 128 | 100.00 |
| Average Monthly | Less than 50,000 Baht | 35 | 27.34 |
| Income | 50,001 – 70,000 Baht | 35 | 27.34 |
| | 70,001 – 90,000 Baht | 28 | 21.88 |
| | More than 90,000 Baht | 30 | 23.44 |
| | Total | 128 | 100.00 |
| Current Position | Human resource director | 13 | 10.16 |
| | Human resource manager | 115 | 89.84 |
| | Total | 128 | 100.00 |

TableA1: Demographic Characteristic of Respondents



| Description | Categories | Frequency | Percentage |
|---------------------|-------------------------------|-----------|------------|
| Business Investment | Domestic Investment | 63 | 49.22 |
| | International Investment | 65 | 50.78 |
| | Total | 128 | 100.00 |
| Business Entity | Limited Companies | 123 | 96.09 |
| | Partnership | 5 | 3.91 |
| | Total | 128 | 100.00 |
| Business Ownership | Single Units | 53 | 41.41 |
| | Franchised Units | 75 | 58.59 |
| | Total | 128 | 100.00 |
| Business Location | Northern Region | 1 | 0.78 |
| | Central Region | 54 | 42.19 |
| | Eastern Region | 30 | 23.44 |
| | Northeastern Region | 2 | 1.56 |
| | Bangkok | 41 | 32.03 |
| | Total | 128 | 100.00 |
| Periods of Time in | Less than 5 years | 1 | 0.78 |
| Business | 5 – 10 years | 7 | 5.47 |
| | 11 – 15 years | 12 | 9.38 |
| | More than 15 years | 108 | 84.37 |
| | Total | 128 | 100.00 |
| Number of Full Time | Less than 300 employees | 64 | 50.00 |
| Employees | More than 300 employees | 64 | 50.00 |
| | Total | 128 | 100.00 |
| Operational Capital | Less than 50,000,000 Baht | 36 | 28.13 |
| | 50,000,001 - 75,000,000 Baht | 22 | 17.19 |
| | 75,000,001 – 100,000,000 Baht | 16 | 12.50 |
| | More than 100,000,000 Baht | 54 | 42.18 |
| | Total | 128 | 100.00 |
| Firm's Average | Less than 50,000,000 Baht | 13 | 10.16 |
| Revenues per Years | 50,000,001 – 75,000,000 Baht | 12 | 9.38 |
| | 75,000,001 – 100,000,000 Baht | 26 | 20.31 |
| | More than 100,000,000 Baht | 77 | 60.15 |
| | Total | 128 | 100.00 |

Table A2: Characteristics of Auto Parts Businesses

| Description | Categories | Frequency | Percentage |
|-------------|----------------------------------|-----------|------------|
| Labor Union | Firm' Employees have Labor Union | 37 | 28.91 |
| | Firm' Employees have not Labor | | |
| | Union | 91 | 71.09 |
| | Total | 128 | 100.00 |

Table A2: Characteristics of Auto Parts Businesses (Continues)



APPENDIX B

Test of Non-Response Bias



Test of Non-Response Bias

Table B1: Chi-Square Statistic

| Firm Characteristic | Early | Late | Value | Pearson Chi- |
|----------------------------------|-------|-------|-------|----------------|
| | Group | Group | | Square-Asymp. |
| | | | | Sig (2-tailed) |
| Business Investment | | | 1.532 | 0.216 |
| - Domestic Investment | 35 | 28 | | |
| - International Investment | 29 | 36 | | |
| Business Ownership | | | 3.896 | 0.051 |
| - Single Units | 32 | 21 | | |
| - Franchise Units | 32 | 43 | | |
| Periods of Time in Business | | | 1.180 | 0.758 |
| - Less than 5 years | 1 | 0 | | |
| - 5 – 10 years | 4 | 3 | | |
| - 11 – 15 years | 6 | 6 | | |
| - More than 15 years | 53 | 55 | | |
| Number of Full Time Employee | | | 0.125 | 0.724 |
| - Less than 300 employees | 33 | 31 | | |
| - More than 300 employees | 31 | 33 | | |
| Operational Capital | | | 4.607 | 0.203 |
| - Less than 50,000,000 Baht | 22 | 14 | | |
| - 500,000,001 – 75,000,000 Baht | 13 | 9 | | |
| - 75,000,001 – 100,000,000 Baht | 7 | 9 | | |
| - More than 100,000,000 Baht | 22 | 32 | | |
| Firm's Average Revenue per Years | | | 2.989 | 0.393 |
| - Less than 50,000,000 Baht | 9 | 4 | | |
| - 500,000,001 – 75,000,000 Baht | 7 | 5 | | |
| - 75,000,001 – 100,000,000 Baht | 10 | 15 | | |
| - More than 100,000,000 Baht | 37 | 40 | | |
| Labor Union | | | 2.724 | 0.256 |
| - Have Labor Union | 15 | 22 | | |
| - Not have Labor Union | 49 | 42 | | |
| Total | 64 | 64 | | |

N of Valid Cases = 128



APPENDIC C Item Factor Loading and Reliability Analysis in Pre-Test



| Construct | Items | Factor | Reliability |
|---|-------|---------|-------------|
| | | Loading | (Alpha) |
| Firm Success (FSC) | FSC1 | 0.849 | 0.938 |
| | FSC2 | 0.886 | |
| | FSC3 | 0.926 | |
| | FSC4 | 0.902 | |
| | FSC5 | 0.857 | |
| | FSC6 | 0.802 | |
| Employee Competency Analysis (ECA) | ECA1 | 0.777 | 0.833 |
| | ECA2 | 0.784 | |
| | ECA3 | 0.917 | |
| | ECA4 | 0.887 | |
| Individual Ability Support (IAS) | IAS1 | 0.718 | 0.836 |
| | IAS2 | 0.854 | |
| | IAS3 | 0.869 | |
| | IAS4 | 0.892 | |
| Continuous Learning Enhancement (CLE) | CLE1 | 0.782 | 0.805 |
| | CLE2 | 0.927 | |
| | CLE3 | 0.848 | |
| | CLE4 | 0.849 | |
| Strategy-Development Connectivity (SDC) | SDC1 | 0.705 | 0.873 |
| | SDC2 | 0.715 | |
| | SDC3 | 0.844 | |
| | SDC4 | 0.904 | |
| | SDC5 | 0.789 | |
| Innovation Creativity Focus (ICF) | ICF1 | 0.836 | 0.894 |
| | ICF2 | 0.926 | |
| | ICF3 | 0.887 | |
| | ICF4 | 0.804 | |
| Employee Commitment (ECM) | ECM1 | 0.806 | 0.889 |
| | ECM2 | 0.859 | |
| | ECM3 | 0.942 | |
| | ECM4 | 0.884 | |

Table C: Item Factor Loading and Reliability Analysis in Pre-Test^a

^an=30

| Construct | Items | Factor | Reliability |
|---|-------|---------|-------------|
| | | Loading | (Alpha) |
| Operational Development (OPD) | OPD1 | 0.909 | 0.905 |
| | OPD2 | 0.877 | |
| | OPD3 | 0.941 | |
| | OPD4 | 0.916 | |
| Business Productivity (BNP) | BNP1 | 0.809 | 0.897 |
| • • • | BNP2 | 0.893 | |
| | BNP3 | 0.791 | |
| | BNP4 | 0.859 | |
| Firm Competitiveness (FCP) | FCP1 | 0.879 | 0.886 |
| | FCP2 | 0.918 | |
| | FCP3 | 0.848 | |
| | FCP4 | 0.946 | |
| Transformational Leadership Orientation (TLO) | TLO1 | 0.759 | 0.898 |
| 1 , , , | TLO2 | 0.928 | |
| | TLO3 | 0.934 | |
| | TLO4 | 0.895 | |
| Human Capital Policy (HCP) | HCP1 | 0.728 | 0.889 |
| | HCP2 | 0.874 | |
| | HCP3 | 0.862 | |
| | HCP4 | 0.912 | |
| Organizational Resource Readiness (ORR) | ORR1 | 0.679 | 0.881 |
| | ORR2 | 0.865 | |
| | ORR3 | 0.771 | |
| | ORR4 | 0.880 | |
| Information Technology Capability (ITC) | ITC1 | 0.705 | 0.911 |
| | ITC2 | 0.916 | |
| | ITC3 | 0.894 | |
| | ITC4 | 0.914 | |
| | | | 0.007 |
| Environmental Complexity Force (ECF) | ECF1 | 0.914 | 0.896 |
| | ECF2 | 0.960 | |
| | ECF3 | 0.861 | |
| | ECF4 | 0.786 | |

Table C: Item Factor Loading and Reliability Analysis in Pre-Test^a (Continued)

| Construct | Items | Factor | Reliability |
|------------------------|-------|---------|-------------|
| | | Loading | (Alpha) |
| Survival Culture (SVC) | SVC1 | 0.809 | 0.897 |
| | SVC2 | 0.860 | |
| | SVC3 | 0.823 | |
| | SVC4 | 0.827 | |

| Table C: Item Factor Loading and Reliability Analysis in Pre-Test ^a (Continued) |
|--|
|--|

^an=30



APPENDIX D

Diagnosis of Primary Assumption for Regression Analysis



| Equation | R | R Squares | Adjusted R | Durbin – |
|----------|-------|-----------|------------|--------------|
| | | | Squares | Watson Value |
| 1 | 0.789 | 0.622 | 0.600 | 2.096 |
| 2 | 0.767 | 0.588 | 0.564 | 1.902 |
| 3 | 0.778 | 0.606 | 0.582 | 1.979 |
| 4 | 0.809 | 0.654 | 0.643 | 1.864 |
| 5 | 0.775 | 0.601 | 0.578 | 1.894 |
| 6 | 0.878 | 0.770 | 0.761 | 2.117 |
| 7 | 0.697 | 0.486 | 0.456 | 1.792 |
| 8 | 0.872 | 0.760 | 0.754 | 2.212 |
| 9 | 0.788 | 0.621 | 0.599 | 2.028 |
| 10 | 0.802 | 0.650 | 0.610 | 2.072 |
| 11 | 0.793 | 0.629 | 0.607 | 2.080 |
| 12 | 0.814 | 0.663 | 0.624 | 2.018 |
| 13 | 0.791 | 0.626 | 0.624 | 2.180 |
| 14 | 0.799 | 0.639 | 0.597 | 2.204 |
| 15 | 0.867 | 0.751 | 0.737 | 2.181 |
| 16 | 0.874 | 0.764 | 0.737 | 2.244 |
| 17 | 0.789 | 0.623 | 0.600 | 2.119 |
| 18 | 0.819 | 0.671 | 0.633 | 2.139 |

Table D1: Durbin and Watson Statistic



Normality

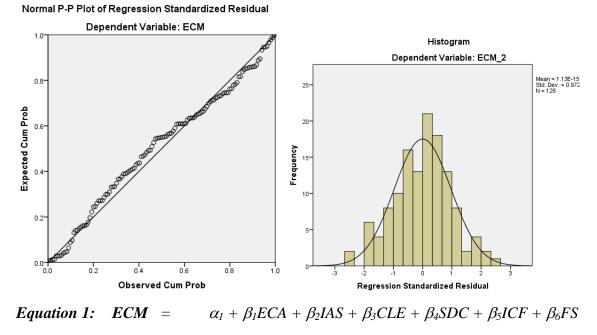
| Equation | Kolmogorov - Smirnov | | | |
|----------|----------------------|-------------------|----------|--|
| | Statistic | Degree of freedom | sig | |
| 1 | 0.045 | 128 | 0.200 | |
| 2 | 0.050 | 128 | 0.200 | |
| 3 | 0.104 | 128 | 0.002*** | |
| 4 | 0.068 | 128 | 0.200 | |
| 5 | 0.081 | 128 | 0.040** | |
| 6 | 0.057 | 128 | 0.200 | |
| 7 | 0.111 | 128 | 0.001*** | |
| 8 | 0.061 | 128 | 0.200 | |
| 9 | 0.056 | 128 | 0.200 | |
| 10 | 0.088 | 128 | 0.017** | |
| 11 | 0.062 | 128 | 0.200 | |
| 12 | 0.062 | 128 | 0.200 | |
| 13 | 0.055 | 128 | 0.200 | |
| 14 | 0.100 | 128 | 0.003*** | |
| 15 | 0.053 | 128 | 0.200 | |
| 16 | 0.068 | 128 | 0.200 | |
| 17 | 0.076 | 128 | 0.065* | |
| 18 | 0.072 | 128 | 0.179 | |

Table D2: Kolmogorov – Smirnov Value

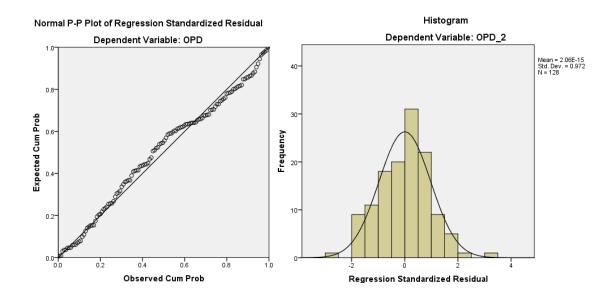
***p<0.01, **p<0.05, *p<0.1



Normality (Continued)



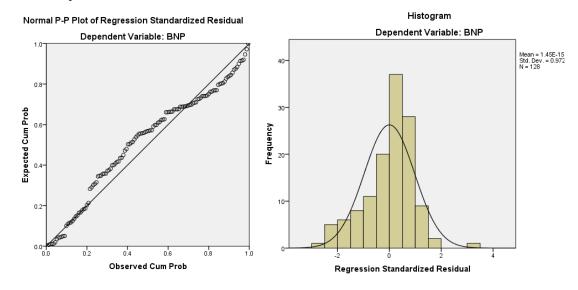
 $+ \beta_7 OS + \varepsilon_1$



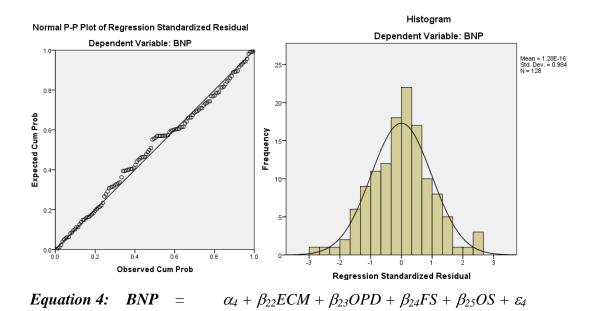
Equation 2: OPD = $\alpha_2 + \beta_8 ECA + \beta_9 IAS + \beta_{10} CLE + \beta_{11} SDC + \beta_{12} ICF + \beta_{13} FS + \beta_{14} OS + \varepsilon_2$



Normality (Continued)

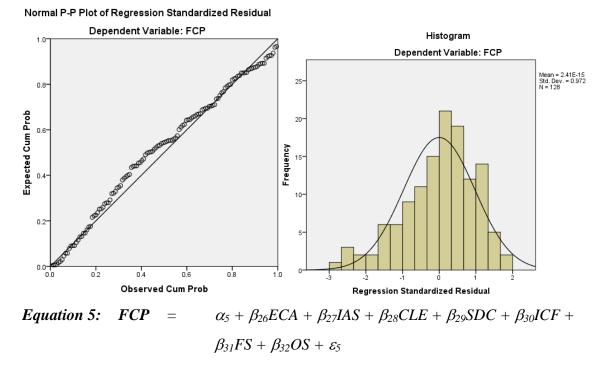


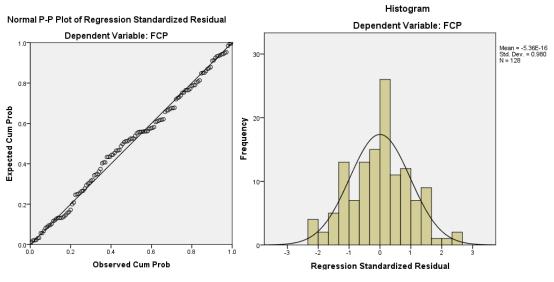
Equation 3: BNP = $\alpha_3 + \beta_{15}ECA + \beta_{16}IAS + \beta_{17}CLE + \beta_{18}SDC + \beta_{19}ICF + \beta_{20}FS + \beta_{21}OS + \varepsilon_3$





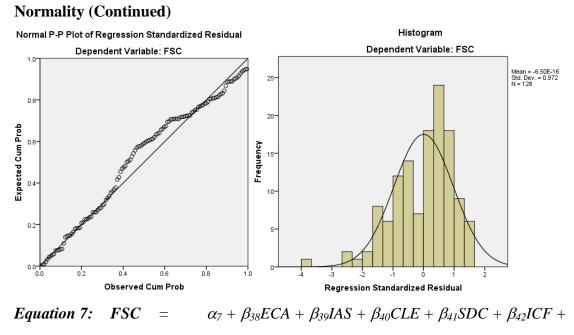
Normality (Continued)



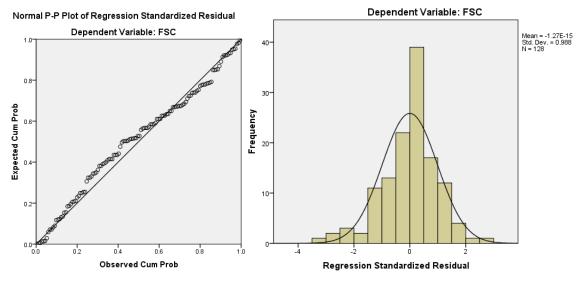


Equation 6: FCP = $\alpha_6 + \beta_{33}ECM + \beta_{34}ODP + \beta_{35}BNP + \beta_{36}FS + \beta_{37}OS + \varepsilon_6$



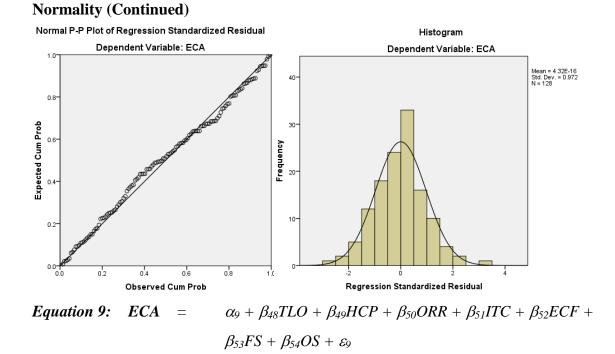


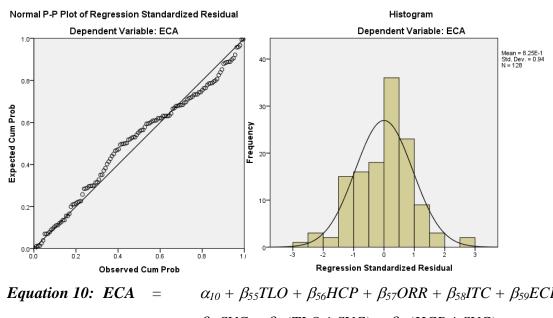
 $\beta_{43}FS + \beta_{44}OS + \varepsilon_7$

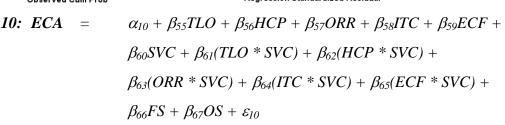


Equation 8: FSC = $\alpha_8 + \beta_{45}FCP + \beta_{46}FS + \beta_{47}OS + \varepsilon_8$

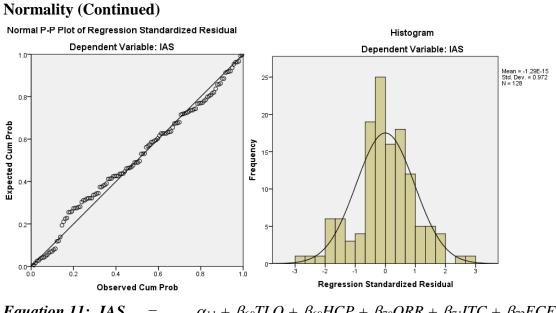




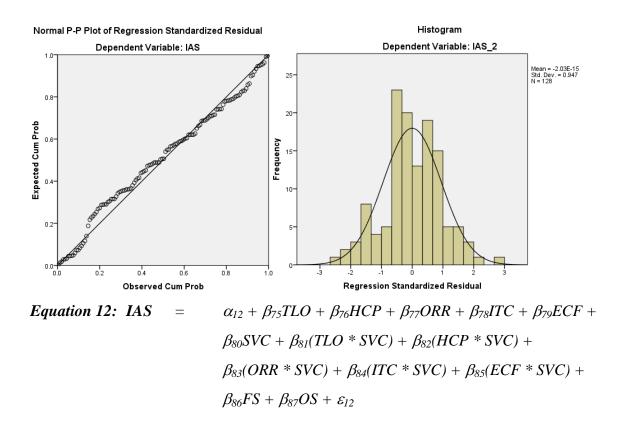




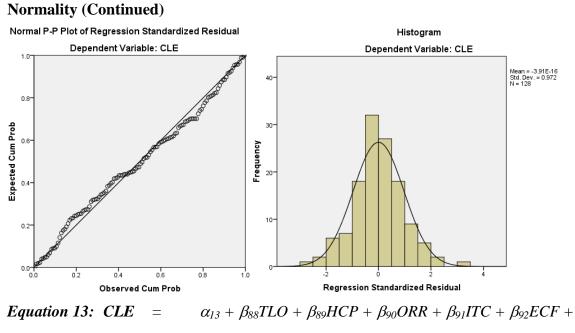




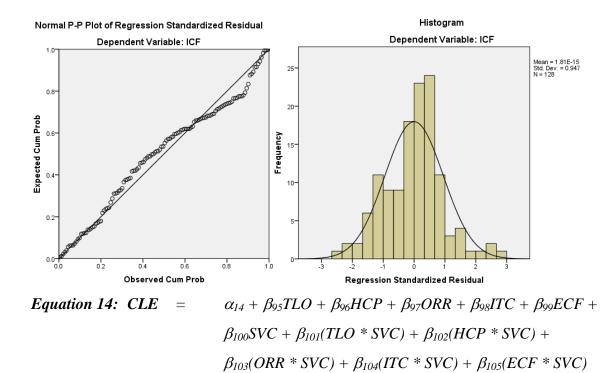
Equation 11: IAS = $\alpha_{11} + \beta_{68}TLO + \beta_{69}HCP + \beta_{70}ORR + \beta_{71}ITC + \beta_{72}ECF + \beta_{73}FS + \beta_{74}OS + \varepsilon_{11}$





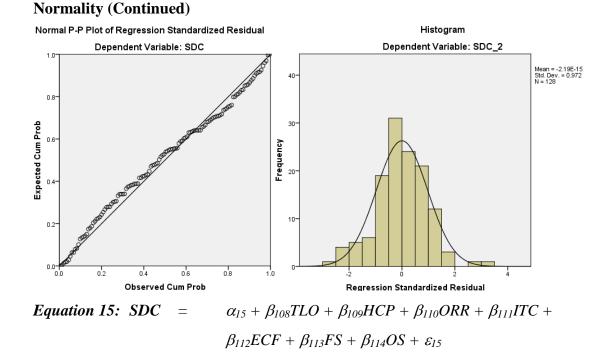


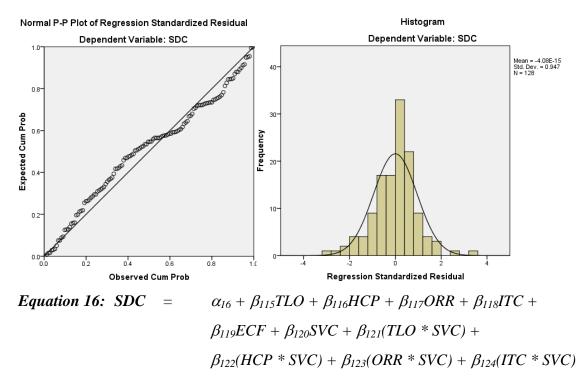
$$\beta_{93}FS + \beta_{94}OS + \varepsilon_{13}$$



 $+ \beta_{106}FS + \beta_{107}OS + \varepsilon_{14}$

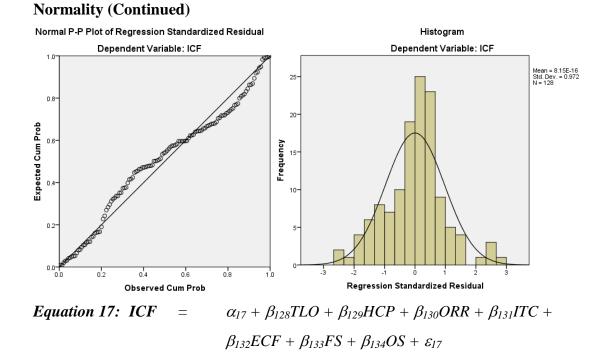


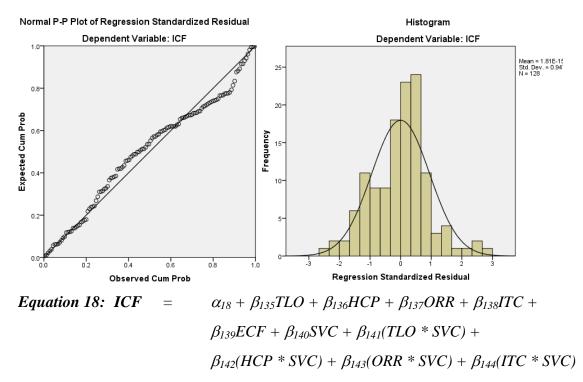


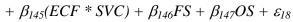


+ $\beta_{125}(ECF * SVC) + \beta_{126}FS + \beta_{127}OS + \varepsilon_{16}$





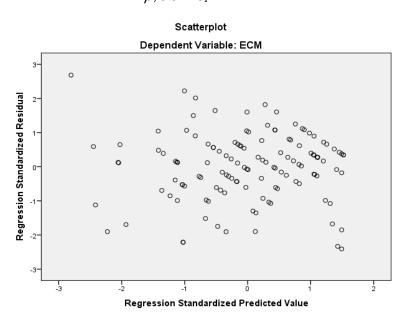






Heteroscedasticity

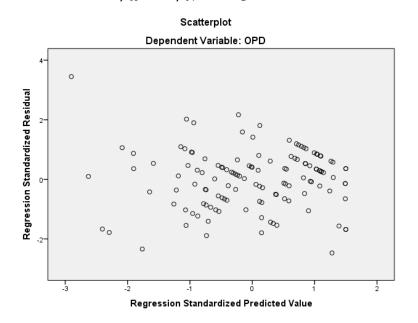
Equation 1: ECM = $\alpha_1 + \beta_1 ECA + \beta_2 IAS + \beta_3 CLE + \beta_4 SDC + \beta_5 ICF + \beta_6 FS$ + $\beta_7 OS + \varepsilon_1$



Equation 2: OPD =

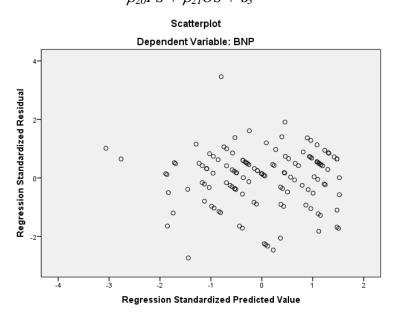
 $\beta_{13}FS + \beta_{14}OS + \varepsilon_2$

 $\alpha_2 + \beta_8 ECA + \beta_9 IAS + \beta_{10} CLE + \beta_{11} SDC + \beta_{12} ICF +$





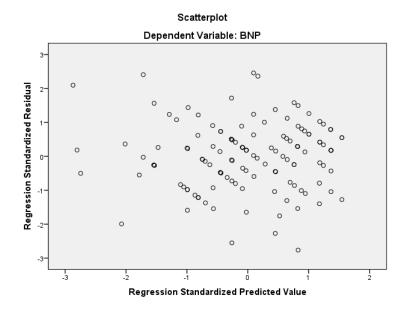
Equation 3: BNP = $\alpha_3 + \beta_{15}ECA + \beta_{16}IAS + \beta_{17}CLE + \beta_{18}SDC + \beta_{19}ICF + \beta_{20}FS + \beta_{21}OS + \varepsilon_3$



Equation 4: BNP

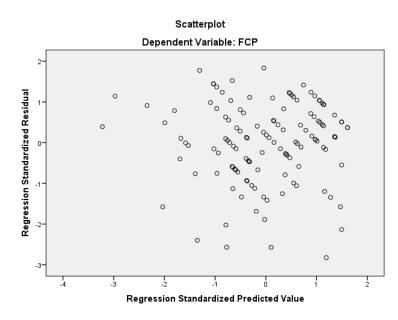
=

 $\alpha_4 + \beta_{22}ECM + \beta_{23}OPD + \beta_{24}FS + \beta_{25}OS + \varepsilon_4$



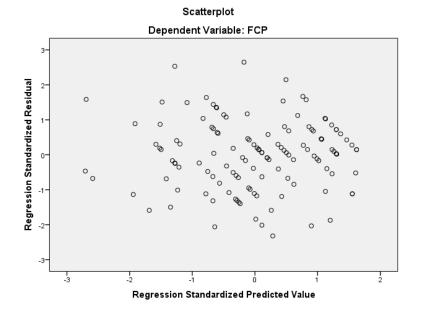


Equation 5: FCP = $\alpha_5 + \beta_{26}ECA + \beta_{27}IAS + \beta_{28}CLE + \beta_{29}SDC + \beta_{30}ICF + \beta_{31}FS + \beta_{32}OS + \varepsilon_5$



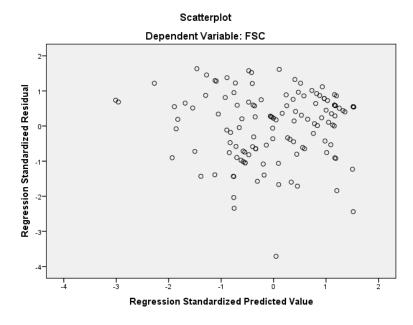
Equation 6: FCP

 $= \alpha_6 + \beta_{33}ECM + \beta_{34}ODP + \beta_{35}BNP + \beta_{36}FS + \beta_{37}OS + \varepsilon_6$





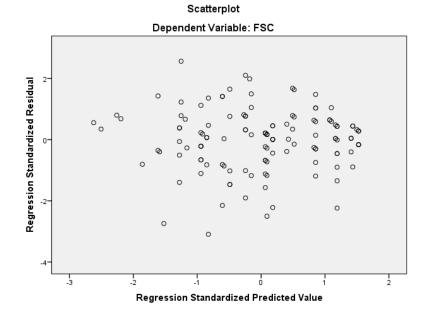
Equation 7: FSC =
$$\alpha_7 + \beta_{38}ECA + \beta_{39}IAS + \beta_{40}CLE + \beta_{41}SDC + \beta_{42}ICF + \beta_{43}ES + \beta_{44}OS + \varepsilon_7$$



Equation 8: FSC

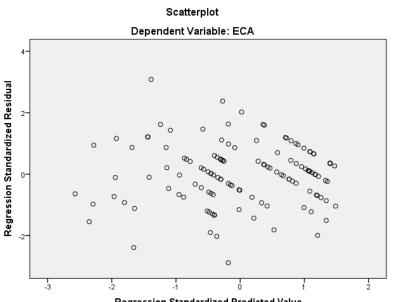
=

 $\alpha_8 + \beta_{45}FCP + \beta_{46}FS + \beta_{47}OS + \varepsilon_8$





 $\alpha_9 + \beta_{48}TLO + \beta_{49}HCP + \beta_{50}ORR + \beta_{51}ITC + \beta_{52}ECF +$ Equation 9: ECA = $\beta_{53}FS + \beta_{54}OS + \varepsilon_9$

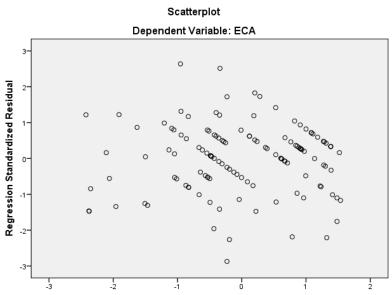


Regression Standardized Predicted Value

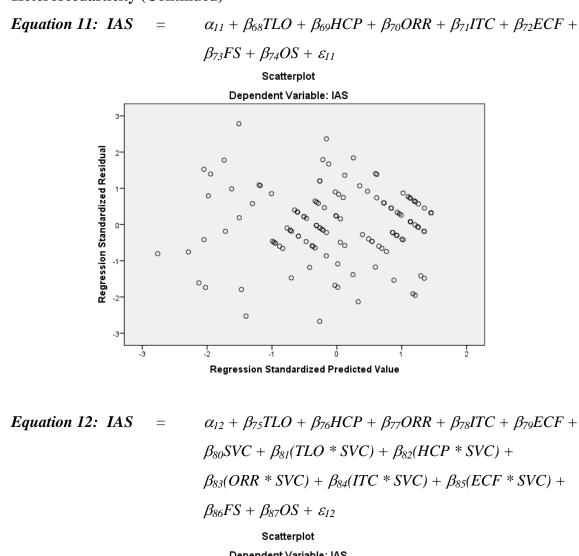


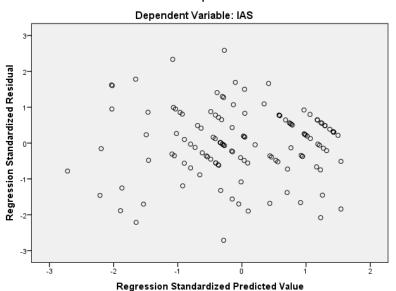
Equation 10: ECA =

 $\alpha_{10} + \beta_{55}TLO + \beta_{56}HCP + \beta_{57}ORR + \beta_{58}ITC + \beta_{59}ECF +$ $\beta_{60}SVC + \beta_{61}(TLO * SVC) + \beta_{62}(HCP * SVC) +$ $\beta_{63}(ORR * SVC) + \beta_{64}(ITC * SVC) + \beta_{65}(ECF * SVC) +$ $\beta_{66}FS + \beta_{67}OS + \varepsilon_{10}$



Regression Standardized Predicted Value



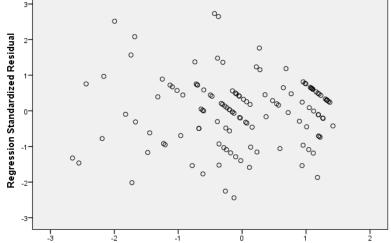


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Equation 13: CLE = $\alpha_{13} + \beta_{88}TLO + \beta_{89}HCP + \beta_{90}ORR + \beta_{91}ITC + \beta_{92}ECF + \beta_{91}ITC + \beta_{92}ECF$

 $\beta_{93}FS + \beta_{94}OS + \varepsilon_{13}$ Scatterplot Dependent Variable: CLE 0 Regression Standardized Residual Ф 2 0 0 Q 0 0 0 -2 C 0 0 0 -3 -1 0 2 -2 Regression Standardized Predicted Value

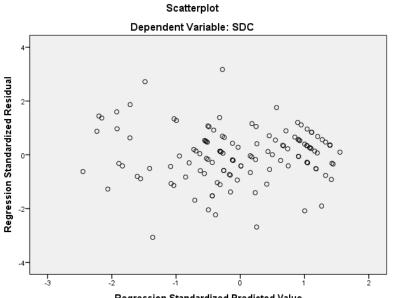
Equation 14: CLE = $\alpha_{14} + \beta_{95}TLO + \beta_{96}HCP + \beta_{97}ORR + \beta_{98}ITC + \beta_{99}ECF + \beta_{100}SVC + \beta_{101}(TLO * SVC) + \beta_{102}(HCP * SVC) + \beta_{103}(ORR * SVC) + \beta_{104}(ITC * SVC) + \beta_{105}(ECF * SVC) + \beta_{106}FS + \beta_{107}OS + \varepsilon_{14}$ Scatterplot Dependent Variable: ICF



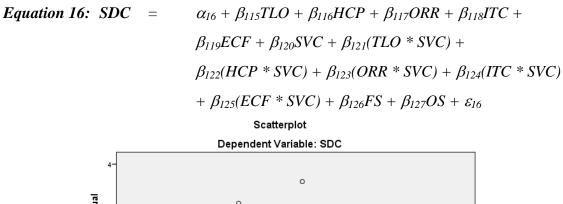
Regression Standardized Predicted Value

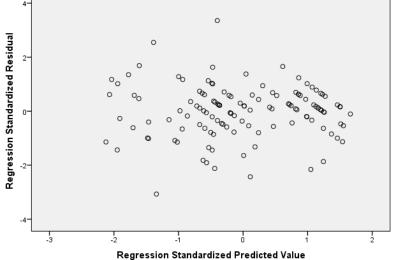


 $\alpha_{15} + \beta_{108}TLO + \beta_{109}HCP + \beta_{110}ORR + \beta_{111}ITC +$ Equation 15: SDC = $\beta_{112}ECF + \beta_{113}FS + \beta_{114}OS + \varepsilon_{15}$



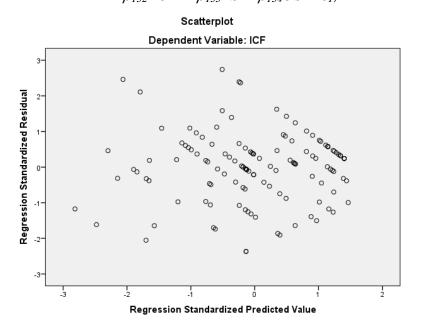


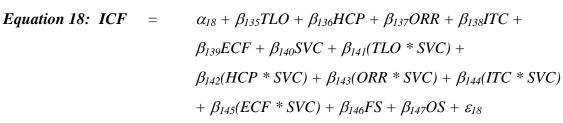




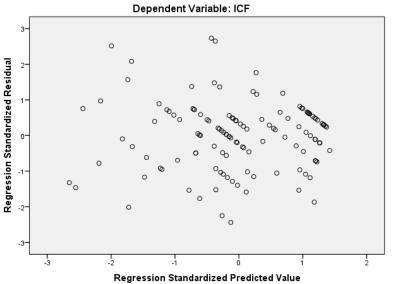


Equation 17: ICF =
$$\alpha_{17} + \beta_{128}TLO + \beta_{129}HCP + \beta_{130}ORR + \beta_{131}ITC + \beta_{132}ECF + \beta_{133}FS + \beta_{134}OS + \varepsilon_{17}$$











Multicollinearity

The VIF should be less than 10, then multicollinearity is not a concerned (Hair et al., 2010). Table D3 illustrate the VIF values in each independent variables of construct as show below.

| Construct | VIF |
|---|-------|
| Employee Competency Analysis (ECA) | 4.314 |
| Individual Ability Support (IAS) | 4.426 |
| Continuous Learning Enhancement (CLE) | 3.859 |
| Strategy-Development Connectivity (SDC) | 4.099 |
| Innovation Creativity Focus (ICF) | 3.454 |
| Employee Commitment (ECM) (Equation 4) | 2.814 |
| Employee Commitment (ECM) (Equation 6) | 3.244 |
| Operational Development (OPD) (Equation 4) | 2.823 |
| Operational Development (OPD) (Equation 6) | 3.290 |
| Business Productivity (BNP) | 2.775 |
| Firm Competitiveness (FCP) | 1.099 |
| Transformational Leadership Orientation (TLO) | 4.125 |
| Human Capital Policy (HCP) | 5.550 |
| Organizational Resource Readiness (ORR) | 4.894 |
| Information Technology Capability (ITC) | 3.838 |
| Environmental Complexity Force (ECF) | 2.031 |
| Transformational Leadership Orientation (TLO) (Moderator testing) | 4.846 |
| Human Capital Policy (HCP) (Moderator testing) | 5.920 |
| Organizational Resource Readiness (ORR) (Moderator testing) | 5.255 |
| Information Technology Capability (ITC) (Moderator testing) | 5.300 |
| Environmental Complexity Force (ECF) (Moderator testing) | 2.742 |
| Survival Culture (SVC) | 5.184 |
| TLO x SVC | 6.696 |
| HCP x SVC | 8.293 |
| ORR x SVC | 7.892 |
| ITC x SVC | 7.197 |
| ECF x SVC | 3.911 |

Table D3: Variance Inflation Factor



APPENDIX E

Cover Letter and Questionnaire (Thai Version)



แบบสอบถามเพื่อการวิจัย เรื่อง ผลกระทบของศักยภาพการพัฒนาทรัพยากรมนุษย์ที่มีต่อความสำเร็จ ของธุรกิจขิ้นส่วนยานยนต์ในประเทศไทย

คำชี้แจง

| | โครงการวิจัยนี้มีวัตถุประสงค์เพื่อศึกษาวิจัยเรื่อง "ผลกระทบของศักยภาพการพัฒนาทรัพยากรมนุษย์ที่มีต่อ |
|------------|---|
| ความสำ | เร็จของธุรกิจชิ้นส่วนยานยนต์ในประเทศไทย" เพื่อใช้เป็นข้อมูลในการจัดทำวิทยานิพนธ์ระดับปริญญาเอกของ |
| ผู้วิจัยใน | หลักสูตรปรัชญาดุษฎีบัณฑิต สาขาวิชาการจัดการ คณะการบัญชีและการจัดการ มหาวิทยาลัยมหาสารคาม |
| 44000 | หมายเลขโทรศัพท์ 043-754333 |
| | ข้าพเจ้าใคร่ขอความอนุเคราะห์จากท่านในการตอบแบบสอบถามชุดนี้ โดยรายละเอียดของแบบสอบถาม |
| ประกอเ | ปด้วยส่วนของคำถาม 7 ตอน ดังนี้ |
| | ตอนที่ 1 ข้อมูลทั่วไปเกี่ยวกับผู้บริหารฝ่ายทรัพยากรมนุษย์ของธุรกิจขึ้นส่วนยานยนต์ในประเทศไทย |
| | ตอนที่ 2 ข้อมูลทั่วไปของธุรกิจชิ้นส่วนยานยนต์ในประเทศไทย |
| | ตอนที่ 3 ความคิดเห็นเกี่ยวกับศักยภาพการพัฒนาทรัพยากรมนุษย์ของธุรกิจชิ้นส่วนยานยนต์ในประเทศ |
| ไทย | |
| | ตอนที่ 4 ความคิดเห็นเกี่ยวกับผลการดำเนินงานของธุรกิจชิ้นส่วนยานยนต์ในประเทศไทย |
| | ตอนที่ 5 ความคิดเห็นเกี่ยวกับปัจจัยภายในที่ส่งผลต่อการดำเนินงานของธุรกิจชิ้นส่วนยานยนต์ในประเทศ |
| ไทย | × |
| | ตอนที่ 6 ความคิดเห็นเกี่ยวกับปัจจัยภายนอกที่ส่งผลต่อการดำเนินงานของธุรกิจชิ้นส่วนยานยนต์ในประเทศ |
| ไทย | ٩ |
| | ตอนที่ 7 ข้อคิดเห็น ปัญหา และข้อเสนอแนะเกี่ยวกับการบริหารธุรกิจชิ้นส่วนยานยนต์ในประเทศไทย |
| | คำตอบของท่านจะถูกเก็บรักษาเป็นความลับ และจะไม่มีการใช้ข้อมูลใด ๆ ที่เปิดเผยเกี่ยวกับตัวท่านในการ |
| รายงาน | ข้อมูล รวมทั้งจะไม่มีการร่วมใช้ข้อมูลดังกล่าวกับบุคคลภายนอกอื่นใดโดยไม่ได้รับอนุญาตจากท่าน |
| 10110 | |
| | ท่านต้องการรายงานสรุปผลการวิจัยหรือไม่ ต้องการ E - mail ไม่ต้องการ |
| | หากท่านต้องการรายงานสรุปผลการวิจัย โปรดระบุ E-mail Address ของท่าน หรือแนบนามบัตรของท่าน |
| มากับแเ | บบสอบถามชุดนี้ |
| | ผู้วิจัยขอขอบพระคุณที่ท่านได้กรุณาเสียสละเวลาในการตอบแบบสอบถามชุดนี้อย่างถูกต้องครบถ้วน และ |
| หวังเป็น | อย่างยิ่งว่าข้อมูลที่ได้รับจากท่านจะเป็นประโยชน์อย่างยิ่งต่อการวิจัยในครั้งนี้ และขอขอบพระคุณอย่างสูงมา |
| ณ โอกา | สนี้ หากท่านมีข้อสงสัยประการใดเกี่ยวกับแบบสอบถาม โปรดติดต่อผู้วิจัย นายอภิ คำเพราะ |
| โทรศัพท่ | ก์เคลื่อนที่ 0-86-645-8939 หรือ E – mail : <u>sandacross@gmail.com</u> |
| | (นายอภิ คำเพราะ) |
| | นิสิตระดับปริญญาเอก สาขาการจัดการ |

คณะการบัญชีและการจัดการ มหาวิทยาลัยมหาสารคาม

| 1. | เพศ | | |
|----|---------|------------------------------------|-----------------------------|
| | | ชาย | หญิง |
| | | | |
| 2. | อายุ | | |
| | | น้อยกว่า 30 ปี | 30 – 40 ปี |
| | | 41 - 50 ปี | มากกว่า 50 ปี |
| | | | |
| 3. | สถานภ | าพ | |
| | | โสด | สมรส |
| | | หย่าร้าง/หม้าย | |
| | | | |
| 4. | ระดับก | ารศึกษา | |
| | | ปริญญาตรีหรือต่ำกว่า | สูงกว่าปริญญาตรี |
| _ | | ۵۵ o | |
| 5. | ประสบ | การณ์ในการทำงาน | |
| | | น้อยกว่า 5 ปี | 5 – 10 ปี |
| | | 11 - 15 ปี | มากกว่า 15 ปี |
| | ИУ | d d du ve | |
| 6. | รายโดเ | ฉลี่ยต่อเดือนที่ได้รับ | |
| | | ต่ำกว่า 50,000 บาท | 50,001 – 70,000 บาท |
| | | 70,001 – 90,000 บาท | มากกว่า 90,000 บาท |
| | | | |
| 7. | ต้าแหน่ | งในปัจจุบัน | |
| | | ผู้อำนวยการฝ่ายพัฒนาทรัพยากรมนุษย์ | ผู้จัดการฝ่ายทรัพยากรมนุษย์ |
| | | อื่นๆ (โปรดระบุ) | |

ตอนที่ 1 ข้อมูลทั่วไปของผู้บริหารฝ่ายทรัพยากรมนุษย์ของธุรกิจชิ้นส่วนยานยนต์ในประเทศไทย

| าอนที่ 2 ข้อมูลทั่วไปเกี่ยวกับธุรกิจขิ้นส่วนยานยนต์ในประเทศไทย |
|--|
| เอนที่ 2 ข้อมูลทั่วไปเกี่ยวกับธุรกิจชิ้นส่วนยานยนต์ในประเทศไทเ |

| 1. | ลักษณะของของธุรกิจ | |
|----|--|-------------------------------|
| | 🗌 ลงทุนจากภายในประเทศไทย | 🗌 ร่วมลงทุนจากต่างประเทศ |
| 0 | | |
| 2. | รูปแบบของธุรกิจ | _ |
| | 🗌 บริษัทจำกัด | 🗌 ห้างหุ้นส่วน |
| 3. | ความเป็นเจ้าของของธุรกิจ | |
| | 🗌 ธุรกิจเดี่ยว | 🗌 ธุรกิจในเครือ |
| | ที่ตั้งของกิจการ | |
| 4. | ทตงของกจการ | |
| | 🗌 ภาคเหนือ | 🗌 ภาคกลาง |
| | 🗌 ภาคตะวันออก | 🗌 ภาคใต้ |
| | 🗌 ภาคตะวันออกเฉียงเหนือ | 🗌 กรุงเทพมหานคร |
| 5. | ระยะเวลาในการดำเนินงานของกิจการ | |
| | 🗌 น้อยกว่า 5 ปี | ่5 − 10 ปี |
| | ่ 11 − 15 ปี | 🗌 มากกว่า 15 ปี |
| | | |
| 6. | จำนวนพนักงานประจำของกิจการในปัจจุบันจำนวน | คน |
| 7. | ทุนในการดำเนินงาน | |
| | 🔲 ต่ำกว่า 50,000,000 บาท | 🗌 50,000,001 – 75,000,000 บาท |
| | □ 75,000,001 - 100,000,000 บาท | 🗌 มากกว่า 100,000,000 บาท |
| 8. | รายได้เฉลี่ยของกิจการต่อปี | |
| 0. | | |
| | 🗌 ต่ำกว่า 50,000,000 บาท | 🗋 50,000,001 – 75,000,000 บาท |
| | □ 75,000,001 - 100,000,000 บาท | 🗌 มากกว่า 100,000,000 บาท |
| 9. | บุคลากรของกิจการมีการเข้าร่วมกับสหภาพแรงงานแห่ | ึ่งประเทศไทย |
| | a | 🗌 ไม่มี |

| | | ระดัง | บความคิด | าเห็น | |
|--|--------|-------|----------|-------|--------|
| ศักยภาพการพัฒนาทรัพยากรมนุษย์ | มาก | มาก | ปาน | น้อย | น้อย |
| (Human Resource Development Capability) | ที่สุด | | กลาง | | ที่สุด |
| | 5 | 4 | 3 | 2 | 1 |
| การวิเคราะห์ความสามารถของพนักงาน (Employee Competency | | | | | |
| <u>Analysis)</u> | | | | | |
| กิจการเชื่อมั่นว่าการมีการวิเคราะห์ศักยภาพความสามารถของบุคลากรที่ | | | | | |
| เป็นระบบ จะช่วยให้กิจการมีการดำเนินงานด้านบุคลากรได้อย่างมีประสิทธิภาพ มากยิ่งขึ้น | | | | | |
| กิจการให้ความสำคัญกับการประเมิน ระบุ และจำแนกศักยภาพของ | | | | | |
| บุคลากรอย่างต่อเนื่อง จะช่วยให้กิจการสามารถบริหารทรัพยากรบุคคลได้อย่างมี | | | | | |
| ประสิทธิภาพสูงสุด | | | | | |
| กิจการผลักดันให้มีการจำแนกความสามารถที่จำเป็นในการดำเนินงานของ | | | | | |
| บุคลากรอย่างเป็นรูปธรรม ซึ่งจะช่วยให้กิจการสามารถวางแผนการพัฒนา | | | | | |
| ทรัพยากรบุคคลได้ดียิ่งขึ้น | | | | | |
| กิจการให้ความสำคัญกับการประเมินความต้องการของบุคลากรในการเข้า | | | | | |
| ฝึกอบรมและพัฒนาความสามารถอย่างต่อเนื่อง ซึ่งจะช่วยให้กิจการสามารถ | | | | | |
| พัฒนาศักยภาพและความสามารถของบุคลากรได้อย่างเหมาะสม | | | | | |
| การสนับสนุนความสามารถระดับบุคคล (Individual Ability Support) | | | | | |
| กิจการเชื่อมั่นว่าการพัฒนาขีดความสามารถของบุคลากรอย่างเต็มที่ จะทำ | | | | | |
| ให้การบริหารงานของกิจการประสบความสำเร็จมากยิ่งขึ้น | | | | | |
| กิจการให้ความสำคัญกับการจัดสรรงบประมาณด้านการพัฒนาบุคลากร | | | | | |
| อย่างเต็มที่ ซึ่งจะช่วยให้บุคลากรแต่ละคนสามารถแสดงศักยภาพและ | | | | | |
| ความสามารถในการปฏิบัติงานของตนเองได้อย่างโดดเด่นและเป็นรูปธรรม | | | | | |
| กิจการสนับสนุนให้บุคลากรแสดงความสามารถที่โดดเด่นในงานที่ได้รับ | | | | | |
| มอบหมายอย่างเต็มที่ ซึ่งจะช่วยให้การปฏิบัติงานบรรลุผลสำเร็จได้เป็นอย่างดี | | | | | |
| กิจการส่งเสริมให้บุคลากรได้รับการพัฒนาและฝึกอบรมในประเด็นและ | | | | | |
| หัวข้อที่สนใจอยู่เสมอ ซึ่งจะช่วยให้การปฏิบัติงานมีประสิทธิภาพสูงสุด | | | | | |
| การส่งเสริมการเรียนรู้อย่างต่อเนื่อง (Continuous Learning | | | | | |
| Enhancement) | | | | | |
| กิจการเชื่อมั่นว่าการเรียนรู้ของบุคลากรอย่างต่อเนื่อง จะช่วยทำให้การ | | | | | |
| ปฏิบัติงานของบุคลากรมีประสิทธิภาพและบรรลุผลสำเร็จได้ดียิ่งขึ้น | | | | | |
| 10. กิจการสนับสนุนให้บุคลากรศึกษาและทำความเข้าใจในประเด็นใหม่ๆในการ | | | | | |
| บริหารจัดการอย่างต่อเนื่อง ซึ่งจะช่วยให้บุคลากรสามารถปรับตัวและปฏิบัติงาน | | | | | |
| ได้ดียิ่งขึ้นภายใต้สถานการณ์ต่างๆ | | | | | |

ตอนที่ 3 ความคิดเห็นเกี่ยวกับศักยภาพการพัฒนาทรัพยากรมนุษย์ของธุรกิจชิ้นส่วนยานยนต์ในประเทศไทย

ตอนที่ 3 (ต่อ)

| | | ระดั | บความคิด | จเห็น | |
|--|--------|------|----------|-------|--------|
| ศักยภาพการพัฒนาทรัพยากรมนุษย์ | มาก | มาก | ปาน | น้อย | น้อย |
| (Human Resource Development Capability) | ที่สุด | | กลาง | | ที่สุด |
| | 5 | 4 | 3 | 2 | 1 |
| 11. กิจการผลักดันให้บุคลากรมีการแลกเปลี่ยนความรู้ และประสบการณ์ในการ | | | | | |
| ทำงานที่ดีระหว่างกันอย่างต่อเนื่องและเป็นระบบ ซึ่งจะช่วยให้สามารถบูรณา | | | | | |
| การความรู้ในการดำเนินงานได้เป็นอย่างดี | | | | | |
| 12. กิจการสนับสนุนให้มีการวิจัยและพัฒนาข้อดี ข้อผิดพลาด ความสำเร็จและ | | | | | |
| ความล้มเหลวในอดีต ซึ่งจะช่วยให้พัฒนาการปฏิบัติงานให้มีประสิทธิภาพมาก ยิ่งขึ้น | | | | | |
| การเชื่อมโยงกลยุทธ์และการพัฒนา (Strategy-Development | | | | | |
| Connectivity) | | | | | |
| 13. กิจการเชื่อมั่นว่าการพัฒนาทรัพยากรมนุษย์เชิงกลยุทธ์ จะช่วยให้การ | | | | | |
| บริหารงานมีความได้เปรียบทางการแข่งขันมากยิ่งขึ้น | | | | | |
| 14. กิจการตระหนักเสมอว่า บุคลากรเป็นทรัพยากรที่มีคุณค่าของกิจการ ซึ่งช่วย | | | | | |
| ผลักดันให้การดำเนินงานมีประสิทธิภาพและประสิทธิผลมากยิ่งขึ้น | | | | | |
| 15. กิจการให้ความสำคัญกับการกำหนดคุณลักษณะและอัตลักษณ์ที่ดีของ | | | | | |
| บุคลากรที่กิจการต้องการอย่างขัดเจน ซึ่งจะช่วยให้เกิดการแรงจูงใจและทิศทาง | | | | | |
| ในการพัฒนาบุคลากรได้อย่างชัดเจนมากยิ่งขึ้น | | | | | |
| 16. กิจการมุ่งเน้นให้มีการวางแผนการพัฒนาทรัพยากรมนุษย์อย่างเป็นระบบ | | | | | |
| และเป็นรูปธรรมทั้งในปัจจุบันและอนาคต ซึ่งจะช่วยให้กิจการมีบุคลากรที่มี | | | | | |
| คุณภาพและมีความสามารถสอดคล้องกับสถานการณ์ทั้งในปัจจุบันและใน | | | | | |
| อนาคตได้ดียิ่งขึ้น | | | | | |
| 17. กิจการมุ่งมั่นให้มีการนำประเด็นและหัวข้อเกี่ยวกับทรัพยากรมนุษย์มา | | | | | |
| พูดคุยและถกเถียงในที่ประชุมอย่างต่อเนื่อง ซึ่งจะช่วยให้การบริหารงานด้าน | | | | | |
| ทรัพยากรมนุษย์ประสบความสำเร็จมากยิ่งขึ้น | | | | | |
| การมุ่งเน้นการสร้างสรรค์นวัตกรรม (Innovation Creativity Focus) | | | | | |
| 18. กิจการเชื่อมั่นว่าการมีบุคลากรที่มีความคิดสร้างสรรค์และคิดค้นสิ่งใหม่อย่าง | | | | | |
| ต่อเนื่อง จะช่วยให้การดำเนินงานประสบความสำเร็จมากยิ่งขึ้น | | | | | |
| 19. กิจการส่งเสริมให้บุคลากรมีความคิดริเริ่มสร้างสรรค์สิ่งใหม่ๆในการ | | | | | |
| ดำเนินงานอย่างต่อเนื่อง ซึ่งจะช่วยให้การบริหารงานบรรลุเป้าหมายได้เป็นอย่าง | | | | | |
| ดี | | | | | |
| 20. กิจการสนับสนุนให้มีการวัดผลการปฏิบัติงานของบุคลากร โดยมุ่งเน้น | | | | | |
| ความคิดสร้างสรรค์ในการปฏิบัติงานอย่างเป็นรูปธรรม ซึ่งจะช่วยให้เกิดการ | | | | | |
| พัฒนาศักยภาพการดำเนินงานของกิจการอย่างต่อเนื่อง | | | | | |
| 21. กิจการมุ่งเน้นให้มีการจัดสรรงบประมาณเพื่อการสร้างสรรค์ วิจัยและพัฒนา | | | | | |
| สิ่งใหม่อย่างเต็มที่ ซึ่งจะช่วยให้การปฏิบัติงานในกิจการมีความเป็นเลิศมากยิ่งขึ้น | | | | | |



| | | ระดั | บความคิ | ดเห็น | |
|--|---------------|------|-------------|-------|----------------|
| ผลการดำเนินงาน | มาก ที่สุด | มาก | ปาน กลาง | น้อย | น้อย ที่สุด |
| | 5 | 4 | 3 | 2 | 1 |
| ความมุ่งมั่นของพนักงาน (Employee Commitment) | | | | | |
| บุคลากรของกิจการมีความพยายามและมุ่งมั่นที่จะปฏิบัติงานอย่างเต็ม ความรู้ความสามารถที่มีอยู่ | | | | | |
| บุคลากรของกิจการมีความภาคภูมิใจในการเป็นสมาชิกภาพของกิจการ และ | | | | | |
| ต้องการที่จะอยู่กับกิจการในระยะยาว | | | | | |
| บุคลากรของกิจการมีความรู้สึกว่าตนเองเป็นส่วนหนึ่งของกิจการและ ต้องการให้กิจการประสบความสำเร็จ เติบโต และเจริญรุ่งเรืองตลอดไป | | | | | |
| 4. บุคลากรของกิจการมีส่วนร่วมในการทำให้กิจการประสบความสำเร็จตาม เป้าหมายที่ตั้งไว้ | | | | | |
| การพัฒนาการดำเนินงาน (Operational Development) 5. กิจการมีการปรับปรุงพัฒนาการดำเนินงานอย่างต่อเนื่องตั้งแต่อดีตถึงปัจจุบัน | | | | | |
| 5. กิจการมีกระบวนการปฏิบัติงานสอดคล้องเหมาะสมกับสถานการณ์ที่เกิดขึ้น ได้เป็นอย่างดี | | | | | |
| กิจการมีการวิเคราะห์ปัญหาต่างๆที่เกิดขึ้นในการปฏิบัติงานและสามารถ แก้ปัญหาได้อย่างเป็นระบบและต่อเนื่อง | | | | | |
| กิจการมีการดำเนินงานบริหารภายในที่สอดคล้องกันเป็นอย่างดี ในทุก สถานการณ์ที่เกิดขึ้น | | | | | |
| ผลิตภาพของธุรกิจ (Business Productivity) | | | | | |
| กิจการมีการบริหารงานที่เป็นไปตามเป้าหมายอย่างครบถ้วนสมบูรณ์ โดยมี การใช้ทรัพยากรและสินทรัพย์อย่างเหมาะสม | | | | | |
| กิจการสามารถบูรณาการทรัพยากรที่มีอยู่อย่างจำกัดให้เกิดประโยชน์สูงสุด แก่องค์กรได้ | | | | | |
| 10. กิจการสามารถปรับเปลี่ยนการใช้ประโยชน์จากบุคลากรหรือเครื่องจักรให้ สามารถสอดคล้องกับสถานการณ์ที่เกิดขึ้นได้ | | | | | |
| 11. กิจการมีการผลิตสินค้าที่มีประสิทธิภาพ โดยสามารถลดการใช้ทรัพยากร อย่างสูญเปล่า และเพิ่มคุณภาพของสินค้าของกิจการได้ | | | | | |
| ความสามารถทางการแข่งขันขององค์กร (Firm Competitiveness) | | | | | |
| 12 กิจการสามารถนำสนอสินค้าหรือบริการใหม่ออกสู่ตลาดได้อย่างต่อเนื่อง | | | | | |
| ้ 13. กิจการมีการบริหารงานที่ประสบความสำเร็จและแตกต่างจากคู่แข่งขัน อย่างเห็นได้ชัด | | | | | |
| 14. กิจการสามารถตอบสนองความต้องการของลูกค้าได้เป็นอย่างดี | | | | | |
| 15. กิจการมีบุคลากรที่มีศักยภาพและความสามารถที่โดดเด่นต่อการดำเนินงาน | | | | | |
| ในปัจจุบันและในอนาคต | | | | | |

ตอนที่ 4 ความคิดเห็นเกี่ยวกับผลการดำเนินงานของธุรกิจชิ้นส่วนยานยนต์ในประเทศไทย

ตอนที่ 4 (ต่อ)

| | | ระดัเ | บความคิด | าเห็น | |
|--|--------|-------|----------|-------|--------|
| ผลการดำเนินงาน | มาก | มาก | ปาน | น้อย | น้อย |
| | ที่สุด | | กลาง | | ที่สุด |
| | 5 | 4 | 3 | 2 | 1 |
| ความสำเร็จขององค์กร (Firm Success) | | | | | |
| 16. กิจการมีผลการดำเนินงานที่ดี เป็นไปตามเป้าหมายของกิจการ | | | | | |
| 17. กิจการมีอัตราส่วนแบ่งตลาดที่เพิ่มขึ้นอย่างต่อเนื่อง ตั้งแต่อดีตจนถึงปัจจุบัน | | | | | |
| 18. กิจการมียอดขายที่เพิ่มขึ้นอย่างต่อเนื่อง เมื่อเทียบกับปีที่ผ่านมา | | | | | |
| 19. กิจการมีกำไรเพิ่มขึ้นอย่างต่อเนื่องจากการดำเนินงาน เป็นไปตามเป้าหมาย | | | | | |
| หรือวัตถุประสงค์ที่กำหนดไว้ | | | | | |
| 20. กิจการมีลูกค้าใหม่เกิดขึ้นอย่างต่อเนื่อง ตลอดจนสามารถรักษาปริมาณ | | | | | |
| ลูกค้าเดิมไว้ได้ | | | | | |
| 21. กิจการได้รับการยอมรับจากลูกค้าและผู้มีส่วนเกี่ยวข้องว่า กิจการมีการ | | | | | |
| บริหารงานอย่างมืออาชีพ | | | | | |

ตอนที่ 5 ความคิดเห็นเกี่ยวกับปัจจัยภายในที่มีผลต่อการดำเนินงานของธุรกิจชิ้นส่วนยานยนต์ในประเทศไทย

| | ระดับความคิดเห็น | | | | |
|--|------------------|-----|------|------|--------|
| ปัจจัยภายในที่ส่งผลต่อการดำเนินงาน | มาก | มาก | ปาน | น้อย | น้อย |
| | ที่สุด | | กลาง | | ที่สุด |
| | 5 | 4 | 3 | 2 | 1 |
| การมุ่งเน้นภาวะผู้นำการปรับเปลี่ยน (Transformational Leadership | | | | | |
| Orientation) | | | | | |
| 1. กิจการเชื่อมั่นว่าการมีเป้าหมายในการบริหารงานที่มุ่งเน้นเพื่อตอบสนองการ | | | | | |
| เปลี่ยนแปลงตามสถานการณ์ในธุรกิจ จะทำให้การบริหารงานมีประสิทธิภาพมาก | | | | | |
| ยิ่งขึ้น | | | | | |
| 2. กิจการมุ่งเน้นในการสร้างแรงบันดาลใจในการปฏิบัติให้กับบุคลากรอย่าง | | | | | |
| ต่อเนื่อง ซึ่งจะทำให้บุคลากรสามารถปฏิบัติงานตามภาระหน้าที่ที่ได้รับ | | | | | |
| มอบหมายได้เป็นอย่างดี | | | | | |
| 3. กิจการให้ความสำคัญกับการกระตุ้นให้บุคลากรเกิดการเรียนรู้ และทำความ | | | | | |
| เข้าใจในการเปลี่ยนแปลงที่เกิดขึ้นอยู่เสมอ ซึ่งจะช่วยให้การดำเนินงานของ | | | | | |
| กิจการบรรลุเป้าหมายได้เป็นอย่างดี | | | | | |
| 4. กิจการตระหนักถึงการให้การดูแลเอาใจใส่ เป็นที่ปรึกษาในการปฏิบัติงานของ | | | | | |
| บุคลากรอยู่เสมอ ซึ่งจะช่วยให้บุคลากรปฏิบัติงานประสบผลสำเร็จตามเป้าหมาย | | | | | |
| ที่กำหนดไว้ | | | | | |

ตอนที่ 5 (ต่อ)

| | | ระดัง | บความคิด | ดเห็น | |
|--|--------|------------------|----------|-------|--------|
| ปัจจัยภายในที่ส่งผลต่อการดำเนินงาน | มาก | มาก มาก ปาน น้อย | | | |
| | ที่สุด | | กลาง | | ที่สุด |
| | 5 | 4 | 3 | 2 | 1 |
| นโยบายด้านทุนมนุษย์ (Human Capital Policy) | | | | | |
| 5. กิจการเชื่อมั่นว่าบุคลากรในกิจการเป็นทุนทรัพย์ที่มีคุณค่า และมีความสำคัญ | | | | | |
| กับกิจการ ซึ่งจะช่วยทำให้การบริหารงานบรรลุเป้าหมายได้เป็นอย่างดี | | | | | |
| 6. กิจการมุ่งมั่นให้มีการลงทุนด้านกิจกรรมด้านทรัพยากรมนุษย์อย่างต่อเนื่อง ซึ่ง | | | | | |
| จะช่วยให้กิจการสามารถดำเนินงานได้อย่างมีประสิทธิภาพมากยิ่งขึ้น | | | | | |
| 7. กิจการตระหนักถึงการใช้ประโยชน์จากความรู้ความสามารถของบุคลากรอย่าง | | | | | |
| เต็มที่ ซึ่งจะช่วยทำให้การปฏิบัติงานบรรลุความสำเร็จได้ดียิ่งขึ้น | | | | | |
| 8. กิจการสนับสนุนให้บุคลากรมีการพัฒนาความรู้ความสามารถอยู่เสมอ ซึ่งจะ | | | | | |
| ช่วยเพิ่มประสิทธิภาพในการดำเนินงานได้ดียิ่งขึ้น | | | | | |
| ความพร้อมด้านทรัพยากรขององค์กร (Organizational Resource | | | | | |
| Readiness) | | | | | |
| 9. กิจการเชื่อมั่นว่าการมีทรัพยากรอย่างเพียบพร้อมและสมบูรณ์ จะช่วยให้การ | | | | | |
| ดำเนินงานของกิจการมีประสิทธิภาพมากยิ่งขึ้น | | | | | |
| 10. กิจการมุ่งมั่นในการจัดสรรงบประมาณลงไปในการดำเนินงานด้านต่างๆ | | | | | |
| อย่างเต็มที่ ซึ่งจะช่วยให้การดำเนินงานบรรลุเป้าหมายได้เป็นอย่างดี | | | | | |
| 11. กิจการให้ความสำคัญกับพัฒนาศักยภาพและความรู้ความสามารถของ | | | | | |
| บุคลากรให้มากยิ่งขึ้น ซึ่งจะช่วยให้การดำเนินงานเป็นเลิศและบรรลุเป้าหมายได้ | | | | | |
| มากยิ่งขึ้น | | | | | |
| 12. กิจการมุ่งมั่นในการพัฒนาเทคโนโลยี เทคนิคและวิธีการในการดำเนินงาน | | | | | |
| อย่างต่อเนื่อง ซึ่งจะช่วยให้สามารถบรรลุเป้าหมายในการดำเนินงานได้ดียิ่งขึ้น | | | | | |
| ความสามารถด้านเทคโนโลยีสารสนเทศ (Information Technology | | | | | |
| Capability) | | | | | |
| 13. กิจการเชื่อมั่นว่าการมีเทคโนโลยีสารสนเทศที่ดี จะทำให้การดำเนินงานมี | | | | | |
| ความทันสมัยและมีประสิทธิภาพมากยิ่งขึ้น | | | | | |
| 14. กิจการให้ความสำคัญกับการลงทุนด้านเทคโนโลยีสารสนเทศอย่างต่อเนื่อง | | | | | |
| ซึ่งจะทำให้กิจการมีระบบฐานข้อมูลในการดำเนินงานของกิจการที่มีประสิทธิภาพ | | | | | |
| มากยิ่งขึ้น | | | | | |
| 15. กิจการส่งเสริมให้บุคลากรมีการเรียนรู้ ทำความเข้าใจ ระบบเทคโนโลยี | | | | | |
| สารสนเทศอย่างต่อเนื่อง จะช่วยให้สามารถประยุกต์ใช้เทคโนโลยีสารสนเทศใน | | | | | |
| การปฏิบัติงานได้ดียิ่งขึ้น | | | | | |

ตอนที่ 5 (ต่อ)

| | ระดับความคิดเห็ | | | | |
|---|-----------------|-----|-------------|------|----------------|
| ปัจจัยภายในที่ส่งผลต่อการดำเนินงาน | มาก ที่สุด | มาก | ปาน กลาง | น้อย | น้อย ที่สุด |
| | 5 | 4 | 3 | 2 | 1 |
| 16. กิจการสนับสนุนให้มีการติดตามความก้าวหน้าและการเจริญเติบโตด้าน | | | | | |
| เทคโนโลยีสารสนเทศอย่างต่อเนื่อง ซึ่งจะช่วยให้กิจการนำมาใช้เป็นข้อมูลในการ | | | | | |
| วางแผนการพัฒนาปรับปรุงเทคโนโลยีสารสนเทศในการดำเนินงานให้มี | | | | | |
| ประสิทธิภาพมากยิ่งขึ้น | | | | | |
| วัฒนธรรมการอยู่รอด (Survival Culture) | | | | | |
| 17. กิจการเชื่อมั่นว่าการมีวัฒนธรรมของกิจการที่มุ่งเน้นการมีเป้าหมายในการ | | | | | |
| ดำเนินงานในระยะยาว จะทำให้การดำเนินงานมีความชัดเจนและสอดคล้องกับ | | | | | |
| การแข่งขันที่รุนแรงได้เป็นอย่างดี | | | | | |
| 18. กิจการตระหนักเสมอว่าการมีนวัตกรรมในการดำเนินงานของกิจการอย่าง | | | | | |
| ต่อเนื่อง จะเป็นแรงผลักดันในการปรับปรุงกิจการให้สอดคล้องกับสถานการณ์ได้ | | | | | |
| ดียิ่งขึ้น | | | | | |
| 19. กิจการส่งเสริมให้บุคลากรมีการคาดการสถานการณ์ที่จะเกิดขึ้นในอนาคต | | | | | |
| อย่างเป็นรูปธรรม ที่จะช่วยให้มีข้อมูลในการวางแผนในการปฏิบัติงานได้อย่างมี | | | | | |
| ประสิทธิภาพ | | | | | |
| 20. กิจการมุ่งมั่นในการพัฒนากิจการอย่างเป็นรูปธรรม ซึ่งจะช่วยให้กิจการ | | | | | |
| สามารถดำเนินงานได้อย่างประสบความสำเร็จทั้งในปัจจุบันและในอนาคต | | | | | |

ตอนที่ 6 ความคิดเห็นเกี่ยวกับปัจจัยภายนอกที่ส่งผลต่อการดำเนินงานของธุรกิจชิ้นส่วนยานยนต์ในประเทศไทย

| | | ระดับความคิดเห็น | | | | | |
|--|--------|------------------|------|------|--------|--|--|
| ปัจจัยภายนอกที่ส่งผลต่อการดำเนินงาน | มาก | มาก | ปาน | น้อย | น้อย | | |
| | ที่สุด | | กลาง | | ที่สุด | | |
| | 5 | 4 | 3 | 2 | 1 | | |
| แรงกดดันจากความซับซ้อนของสภาพแวดล้อม (Environmental | | | | | | | |
| Complexity Force) | | | | | | | |
| 1. ในปัจจุบันธุรกิจมีการแข่งขันอย่างรุนแรงเพิ่มขึ้น ทำให้กิจการต่างๆมุ่งเน้น | | | | | | | |
| ในการปรับปรุงพัฒนาตัวเองอย่างต่อเนื่อง เพื่อให้สามารถทำการแข่งขันในธุรกิจ | | | | | | | |
| ได้เป็นอย่างดี | | | | | | | |
| ในปัจจุบันธุรกิจมีคู่แข่งเกิดขึ้นจำนวนมาก ทำให้กิจการต่างๆ มีการมุ่งเน้น | | | | | | | |
| การพัฒนาและและปรับปรุงตัวเองอย่างต่อเนื่อง จะทำให้กิจการสามารถมี | | | | | | | |
| ศักยภาพและความสามารถทางการแข่งขันทั้งในปัจจุบันและอนาคตได้เป็นอย่าง | | | | | | | |
| ดี | | | | | | | |

ตอนที่ 6 (ต่อ)

| | | ระดับความคิดเห็น | | | | |
|--|--------|------------------|------|------|--------|--|
| ปัจจัยภายนอกที่ส่งผลต่อการดำเนินงาน | มาก | มาก | ปาน | น้อย | น้อย | |
| | ที่สุด | | กลาง | | ที่สุด | |
| | 5 | 4 | 3 | 2 | 1 | |
| ลูกค้ามีความต้องการที่หลากหลายมากขึ้น ทำให้กิจการต่างๆ มีการ | | | | | | |
| ปรับเปลี่ยนค้นหาวิธีการดำเนินงานใหม่ๆอย่างต่อเนื่อง เพื่อให้สามารถ | | | | | | |
| ตอบสนองความต้องการได้อย่างทันท่วงที | | | | | | |
| ปัจจุบันเทคโนโลยีมีความก้าวหน้ามากยิ่งขึ้น ทำให้กิจการต่างๆ ต้อง | | | | | | |
| ทำการศึกษา เรียนรู้ และประยุกต์ใช้เทคโนโลยีดังกล่าว มาใช้ในการ | | | | | | |
| ดำเนินงานได้อย่างมีประสิทธิภาพสูงสุด | | | | | | |

ตอนที่ 7 ข้อเสนอแนะและข้อคิดเห็นเกี่ยวกับการบริหารทรัพยากรมนุษย์ของธุรกิจขึ้นส่วนยานยนต์ในประเทศไทย

| •••••• | |
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ขอขอบพระคุณเป็นอย่างสูงที่ท่านกรุณาสละเวลาตอบแบบสอบถามทุกข้อ และได้โปรดพับแบบสอบถามและใส่ซองที่แนบมาพร้อมกันนี้ ส่งคืนผู้วิจัยตามที่อยู่ที่ได้ระบุ หากท่านต้องการรายงานสรุปผลการสำรวจครั้งนี้โปรดแนบนามบัตรของท่านมาพร้อมกับแบบสอบถาม ข้าพเจ้ายินดีจัดส่งรายงานสรุปให้แก่ท่านในภายหลัง



APPENDIX F

Original Item, Cover Letter and Questionnaire (English Version)



Table F1: Original Item in Scales

| Construct | Items |
|--------------|---|
| Employee C | Competency Analysis (ECA) |
| ECA1 | Firm believes that the implementation of systematic employee |
| | competency analysis will efficiency enhancement in human resource |
| | performance. |
| ECA2 | Firm place important on evaluation, identification and classify the |
| | employee ability continuously and it will help firm can maximum |
| | efficiency human resource management. |
| ECA3 | Firm push on concrete necessary ability identification in the employee |
| | operation which will help firm to can upgrade the planning in human |
| | resource development |
| ECA4 | Firm place important on need evaluation of employee in taken training |
| | and developing an ability continuously which will help firm can develop |
| | ability and competency of employee properly. |
| Individual A | Ability Support (IAS) |
| IAS1 | Firm believes that extremely developing in ability limit of employee will |
| | more achieve in firm management. |
| IAS2 | Firm place important on extremely budget allocation in human |
| | development which will help individual employee can great and |
| | concrete ability and competency utilization. |
| IAS3 | Firm supports employee to great and extremely illustrate the ability in |
| | entrust work which will help to good achieve the operation goal. |
| IAS4 | Firm enhance employee in taken development and training in title that |
| | employee interest continuously which will help to maximum efficiency |
| | operation. |
| Continuous | Learning Enhancement (CLE) |
| CLE1 | Firm believes that the learning of employee continuously will help |
| | employee operation have more efficiency achievement. |

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| Table F1: Original Item in Scales (continued) |
|---|
|---|

| Construct | Items |
|--------------|--|
| CLE2 | Firm supports employee in new topic study and understanding in |
| | management continuously which help employee to adapt and greater |
| | operation under separate situation. |
| CLE3 | Firm push on employee in share the knowledge and experience in |
| | working continuously and systemically which will help to can well |
| | integrated the knowledge in operation. |
| CLE4 | Firm supports in research and development in merit, mistake, success |
| | and failure in the past which will help operation is more efficiency |
| | developed. |
| Strategic-De | evelopment Connectivity (SDC) |
| SDC1 | Firm believes that strategic human resource development will help firm |
| | management can more achieve the competitive advantage over |
| | competitor. |
| SDC2 | Firm always aware that human is a valuable resource of the firm which |
| | help firm to more efficiency and effectively operation. |
| SDC3 | Firm place important on clearly specify on good characteristic and |
| | nature of employee that firm need which will help to more clearly |
| | motivation and guideline in human development. |
| SDC4 | Firm emphasize in systematic and concrete planning of human resource |
| | development in both present and future which will help firm take |
| | employee with quality and better consistency ability on present and |
| | future situation. |
| SDC5 | Firm concentrate to use human resource topic and issue to discuss in |
| | meeting continuously which will help human resource management to |
| | greater achievement. |
| Innovation (| Creativity Focus (ICF) |
| ICF1 | Firm believes that continuously creative thinking employee will help |
| | firm to more success operation. |



| Table F1: Original Item in Scales (continued) |
|---|
|---|

| Construct | Items |
|-------------|---|
| ICF2 | Firm enhance employee have continuously creative thinking in new |
| | something of operation which will help work management better achieve |
| | the goal. |
| ICF3 | Firm supports the continuously operation evaluation of employee that |
| | emphasize on creative thinking in operation which will help occur |
| | development in operational development of the firm continuously. |
| ICF4 | Firm emphasize the extremely budget allocation for create, research and |
| | developing a new something which will help firm operation to more |
| | excellent. |
| Employee C | Commitment (ECM) |
| ECM1 | Employee of firm has extremely attempt and attention in work operation. |
| ECM2 | Employee of firm has worthiness in firm citizenship and want to stay |
| | with firm in long-term. |
| ECM3 | Employee of firm has feel that themselves is a one part of firm and want |
| | to see firm successful, grow up and progress forward. |
| ECM4 | Employee of firm has participation in firm successful from exist target. |
| Operational | Development (OPD) |
| OPD1 | Firm has continuous improve and developing operation continuously |
| | from the past to the future. |
| OPD2 | Firm has well appropriately and consistency operation in exist situation. |
| OPD3 | Firm has analyze in several problem that occur in operation and can solve |
| | systemically and continuously. |
| OPD4 | Firm has well consistency internal operational management in any exist |
| | situation? |

| Construct | Items |
|-------------|--|
| Business Pr | oductivity (BNP) |
| BNP1 | Firm has work management that consistency with target perfectly which |
| | has appropriately use resource and asset. |
| BNP2 | Firm can integrate limit exist resource to maximum benefit to the firm. |
| BNP3 | Firm can utilize transformation from employee or machine for |
| | consistency to exist situation. |
| BNP4 | Firm has efficiency production which can reduce wasteful resource using |
| | and increase product quality of the firm. |
| Firm Comp | etitiveness (FCP) |
| FCP1 | Firm can launch the new product to market continuously. |
| FCP2 | Firm has successfully management and great different from competitor. |
| FCP3 | Firm can good response the customer need? |
| FCP4 | Firm has great latency and competency employee in present and future |
| | operation. |
| Firm Succe | ss (FSC) |
| FSC1 | Firm has a good performance and consistency with target. |
| FSC2 | Firm has increase market share continuously from the past to present. |
| FSC3 | Firm has increase sale revenue continuously when compare from last year? |
| FSC4 | Firm has increase profit continuously from operation which consistency |
| | with exist target and objective. |
| FSC5 | Firm has new customer continuously and can keep an old customer. |
| FSC6 | Firm take recognition from customer and stake holder that firm has |
| | professional management. |
| Transforma | tional Leadership Orientation (TLO) |
| TLO1 | Firm believes that engrosses management target for response the |
| | business situation change will cause to more efficiency management. |

| Table F1: Original Item in | Scales (continued) |
|----------------------------|--------------------|
|----------------------------|--------------------|

| Table F1: Original Item in Scales (cont | inued) |
|---|--------|
|---|--------|

| Construct | Items |
|-------------|--|
| TLO2 | Firm emphasis in make operation inspiration to employee continuously |
| | which will help employee to best assign work operation. |
| TLO3 | Firm place important on moderate the employee learning and |
| | understanding in continuously change which will help to firm operation |
| | and achieve the firm target. |
| TLO4 | Firm aware in take care and mentoring in employee operation |
| | continuously which will help employee in successful operation to |
| | existing target. |
| Human Cap | ital Policy (HCP) |
| HCP1 | Firm believes that employee in the firm is valuable asset and has |
| | important with the firm which will help firm management achieve the |
| | exist target. |
| HCP2 | Firm engrosses to activities investment in human resource continuously |
| | which will help firm can more efficiency operation. |
| HCP3 | Firm aware to extreme utilization from knowledge and ability of |
| | employee which will help firm operation more successes achievement. |
| HCP4 | Firm supports employee in knowledge and ability development |
| | continuously which will help increase efficiency operation. |
| Organizatio | nal Resource Readiness (ORR) |
| ORR1 | Firm believes that richness and fully of resource will help firm to more |
| | efficiency operation. |
| ORR2 | Firm engrosses in budget allocation in fully separate department which |
| ORR2 | help firm to good target efficiency achievement. |
| ORR3 | |
| υκκο | Firm place important in more competency, knowledge and ability |
| | development of employee which will help firm to greatest operation and |
| | more target achievement. |

Table F1: Original Item in Scales (continued)

| Construct | Items |
|-------------|--|
| ORR4 | Firm engrosses in technology, technique and process development in |
| | operation continuously which will help firm can more operation target |
| | achievement. |
| Information | Technology Capability (ITC) |
| ITC1 | Firm believes that the good information technology will take a modern |
| | and efficiency operation. |
| ITC2 | Firm place important in information technology investment continuously |
| | which will help firm has best efficiency database system. |
| ITC3 | Firm enhance employee to more learning and understanding the |
| | information technology system continuously which will help firm can |
| | better applied information technology in operation. |
| ITC4 | Firm supports the follow up in advancement and growth up of |
| | information technology continuously which will help firm can use data |
| | in planning and developing in information technology of better |
| | efficiency operation. |
| Survival Cu | lture (SVC) |
| SVC2 | Firm believes that the firm culture that engrosses long term operational |
| | target will make clearly operation and good consistency with rapid |
| | competition. |
| SVC2 | Firm always aware in continuous firm operational innovation will push |
| | on firm adaptation to better situation consistency. |
| SVC3 | Firm enhance employee to predication in concrete future situation which |
| | will help firm in planning data on better operation. |
| SVC4 | Firm engrosses in firm concrete development which will help firm can |
| | successful operation in both present and future. |

| Construct | Items |
|------------|--|
| | |
| Environmer | ntal Complexity Force (ECF) |
| ECF1 | In present day, the business competition is more rapidly course any firm |
| | engrosses to adapt and develop themselves continuously for them can |
| | better competition. |
| ECF2 | In present day, business competition has more competitor course any |
| | firm has engrosses adaptation and development continuously which will |
| | help firm has better capability and ability in competition both present |
| | and future. |
| ECF3 | The customer has more various need course any firm has adapt and |
| | search the new operation continuously for they can response customer |
| | need immediately. |
| ECF4 | In present day, it has more modern technology course any firm must |
| | study, learning and applied to use that technology in maximum |
| | efficiency operation. |

Table F1: Original Item in Scales (continued)



Questionnaire to the Ph. D. Dissertation Research "Effects of Human Resource Development Capability and Firm Success of Auto Parts Businesses in Thailand"

Explanations:

The objective of this research is to investigate "the human resource development capability of auto parts businesses in Thailand". The data will used in analysis of Ph. D. dissertation of branch of management, Accounting and management faculty, Mahasarakham University, Mahasarakham, Thailand.

The researcher may assistance you to answer the questionnaire with consist of 7 sections as below.

Section 1: Personal information about executive of auto parts businesses in Thailand.

Section 2: General information about auto parts businesses in Thailand.

Section 3: Opinion on human resource development of auto parts businesses in Thailand.

Section 4: Opinion on business outcomes of auto parts businesses in Thailand. Section 5: Opinion on the internal factor that impact on human resource

development of auto parts businesses in Thailand.

Section 6: Opinion on the external factor that impact on human resource development of auto parts businesses in Thailand.

Section 7: Recommendations and suggestions regarding human resource development of auto parts businesses in Thailand.

Your answer will be kept as confidentiality and your information will not be shared with any outsider party without your permission.

If you want a summary of this research, please indicate your E-mail address or attach your business card with this questionnaire. The summary will be mailed to you as soon as the analysis is completed.

Thank you for your time answering all the questions. I have no doubt that your answer will provide valuable information for academic advancement. If you have any questions with respect to this, please contact researcher directly.

Sincerely yours,

(Aphi Khamphroh) Ph.D. Candidate Mahasarakham Business School Mahasarakham University, Thailand

Contact Info: Cell phone: 086-645-8939 E-mail: <u>sandacross@gmail.com</u>



Section 1: Personal information about executives of auto parts businesses in Thailand

| 1. Gend | ler | |
|----------|---|---|
| | Male | Female |
| 2. Age | | |
| | Less than 30 years old 41 – 50 years old | 30 – 40 years old More than 50 years old |
| 3. Mari | tal Status | |
| | Single Divorced | Married |
| 4. Leve | l of education | |
| | Bachelor's degree or lower | Higher than Bachelor's degree |
| 5. Worl | king experiences | |
| | Less than 5 years 11 – 15 years | 5 – 10 years More than 15 years |
| 6. Aver | age revenues per month | |
| | Less than 50,000 Baht 70,001 – 90,000 Baht | 50,001 – 70,000 Baht More than 90,000 Baht |
| 7. Curre | ent position | |
| | Human resource director Other (Please Specify) | Human resource manager |

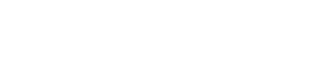


Section 2: General information about auto parts businesses in Thailand

1. Business Investment

| | | Domestic Investment | | International Investment |
|----|------------------|--|------|--|
| 2. | Busin | ness Type | | |
| | | Company limited | | Partnership |
| 3. | Busin | ness Ownership | | |
| | | Single unit | | Franchised unit |
| 4. | Busin | ness Location | | |
| | | Northern Region Eastern Region North-Eastern Region | | Southern Region |
| 5. | The _J | period of time in business | | |
| | | Less than 5 years 11 – 15 years | | 5 - 10 years More than 15 years |
| 6. | Num | ber of full time employee (Please | Spe | cify)Employee |
| 7. | Oper | ational Capital | | |
| | | Less than 50,000,000 Baht 75,000,001 – 100,000,000 Baht | | |
| 8. | Aver | age annual income per year | | |
| | | Less than 50,000,000 Baht 75,000,001 – 100,000,000 Baht | | 50,000,001 – 75,000,000 Baht More than 100,000,000 Baht |
| 9. | The e | employee in the firm have join in | labc | r union of Thailand |

□ No



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Yes

Section 3: Opinion on human resource development of auto parts businesses in Thailand

| | | Level | of Agre | ement | |
|---|------------|-------|---------|-------|---------------|
| Human Resource Development Capability | Strongly | | Neutral | | |
| | Agree 5 | 4 | 3 | 2 | Disagree 1 |
| Employee Competency Analysis | 3 | - | 5 | 2 | 1 |
| 1. Firm believes that the implementation of systematic employee | | | | | |
| competency analysis will efficiency enhancement in human resource | | | | | |
| performance | | | | | |
| 2. Firm place important on evaluation, identification and classify | | | | | |
| the employee ability continuously and it will help firm can maximum | | | | | |
| efficiency human resource management | | | | | |
| 3. Firm push on concrete necessary ability identification in the | | | | | |
| employee operation which will help firm to can upgrade the planning | | | | | |
| in human resource development | | | | | |
| 4. Firm place important on need evaluation of employee in taken | | | | | |
| training and developing an ability continuously which will help firm | | | | | |
| can develop ability and competency of employee properly | | | | | |
| Individual Ability Support | | | | | |
| 5. Firm believes that extremely developing in ability limit of | | | | | |
| employee will more achieve in firm management | | | | | |
| 6. Firm place important on extremely budget allocation in human | | | | | |
| development which will help individual employee can great and | | | | | |
| concrete ability and competency utilization | | | | | |
| 7. Firm supports employee to great and extremely illustrate the | | | | | |
| ability in entrust work which will help to good achieve the operation | | | | | |
| goal | | | | | |
| 8. Firm enhance employee in taken development and training in | | | | | |
| title that employee interest continuously which will help to maximum | | | | | |
| efficiency operation | | | | | |
| Continuous Learning Enhancement | | | | | |
| 9. Firm believes that the learning of employee continuously will | | | | | |
| help employee operation have more efficiency achievement | | | | | |
| 10.Firm supports employee in new topic study and understanding | | | | | |
| in management continuously which help employee to adapt and | | | | | |
| greater operation under separate situation | | | | | |
| 11.Firm push on employee in share the knowledge and experience | | | | | |
| in working continuously and systemically which will help to can well | | | | | |
| integrated the knowledge in operation | | | | | |
| 12.Firm supports in research and development in merit, mistake, | | | | | |
| success and failure in the past which will help operation is more | | | | | |
| efficiency developed | | | | | |
| Strategy-Development Connectivity | | | | | |
| 13.Firm believes that strategic human resource development will | | | | | |
| help firm management can more achieve the competitive advantage | | | | | |
| over competitor | | | | | |
| 14.Firm always aware that human is a valuable resource of the firm | | | | | |
| which help firm to more efficiency and effectively operation | | | | | |
| 15.Firm place important on clearly specify on good characteristic | | | | | |
| and nature of employee that firm need which will help to more | | | | | |
| clearly motivation and guideline in human development | | | | | |

Section 3 (Continued)

| | | Level | of Agr | eement | |
|--|------------|-------|---------|----------|---------------|
| Human Resource Development Capability | Strongly | Agree | Neutral | Disagree | |
| | Agree 5 | 4 | 3 | 2 | Disagree 1 |
| 16. Firm emphasize in systematic and concrete planning of | | | | | |
| human resource development in both present and future which | | | | | |
| will help firm take employee with quality and better consistency | | | | | |
| ability on present and future situation | | | | | |
| 17. Firm concentrate to use human resource topic and issue to | | | | | |
| discuss in meeting continuously which will help human resource | | | | | |
| management to greater achievement | | | | | |
| Innovation Creativity Focus | | | | | |
| 18. Firm believes that continuously creative thinking employee | | | | | |
| will help firm to more success operation | | | | | |
| 19. Firm enhance employee have continuously creative thinking | | | | | |
| in new something of operation which will help work management | | | | | |
| better achieve the goal | | | | | |
| 20. Firm supports the continuously operation evaluation of | | | | | |
| employee that emphasize on creative thinking in operation which | | | | | |
| will help occur development in operational development of the | | | | | |
| firm continuously | | | | | |
| 21. Firm emphasize the extremely budget allocation for create, | | | | | |
| research and developing a new something which will help firm | | | | | |
| operation to more excellent | | | | | |

Section 4: Opinion on business outcomes of auto parts businesses in Thailand

| | | Level | of Agr | eement | |
|--|--|------------|--------------|---------------|---------------------------|
| Business Outcome | | Agree 4 | Neutral 3 | Disagree 2 | Strongly Disagree 1 |
| Employee Commitment | | | | | |
| 1. Employee of firm has extremely attempt and attention in | | | | | |
| work operation | | | | | |
| 2. Employee of firm has worthiness in firm citizenship and | | | | | |
| want to stay with firm in long-term | | | | | |
| 3. Employee of firm has feel that themselves is a one part of | | | | | |
| firm and want to see firm successful, grow up and progress | | | | | |
| forward | | | | | |
| 4. Employee of firm has participation in firm successful from | | | | | |
| exist target | | | | | |
| Operational Development | | | | | |
| 5. Firm has continuous improve and developing operation | | | | | |
| continuously from the past to the future | | | | | |
| 6. Firm has well appropriately and consistency operation in | | | | | |
| exist situation | | | | | |
| 7. Firm has analyze in several problem that occur in operation | | | | | |
| and can solve systemically and continuously | | | | | |
| 8. Firm has well consistency internal operational management | | | | | |
| in any exist situation | | | | | |
| Business Productivity | | | | | |
| 9. Firm has work management that consistency with target | | | | | |
| perfectly which has appropriately use resource and asset | | | | | |



Section 4 (Continued)

| | | Level | of Agr | eement | |
|--|--|-------|--------|----------|---------------------------|
| Business Outcome | | | | Disagree | Strongly Disagree 1 |
| 10. Firm can integrate limit exist resource to maximum benefit to the firm | | | | | |
| 11. Firm can utilize transformation from employee or machine for consistency to exist situation | | | | | |
| 12. Firm has efficiency production which can reduce wasteful resource using and increase product quality of the firm | | | | | |
| Firm Competitiveness 13. Firm can launch the new product to market continuously | | | | | |
| 14. Firm has successfully management and great different from competitor | | | | | |
| 15. Firm can good response the customer need | | | | | |
| 16. Firm has great latency and competency employee in present and future operation | | | | | |
| <u>Firm Success</u> 17. Firm has a good performance and consistency with target | | | | | |
| 18. Firm has increase market share continuously from the past to present | | | | | |
| 19. Firm has increase sale revenue continuously when compare from last year | | | | | |
| 20. Firm has increase profit continuously from operation which consistency with exist target and objective | | | | | |
| 21. Firm has new customer continuously and can keep an old customer | | | | | |
| 22. Firm take recognition from customer and stake holder that firm has professional management | | | | | |

Section 5: Opinion on the internal factor that impact on human resource development of auto parts businesses in Thailand

| | | Level | of Agre | ement | |
|--|----------|-------|---------|----------|-------|
| Internal factor | Strongly | Agree | Neutral | Disagree | ~ • |
| | Agree | 4 | 3 | 2 | Agree |
| Transformational Leadership Orientation | 5 | - | 5 | | 5 |
| 1. Firm believes that engrosses management target for | | | | | |
| response the business situation change will cause to more | | | | | |
| efficiency management | | | | | |
| 2. Firm emphasis in make operation inspiration to employee | | | | | |
| continuously which will help employee to best assign work | | | | | |
| operation | | | | | |
| 3. Firm place important on moderate the employee learning | | | | | |
| and understanding in continuously change which will help to firm | | | | | |
| operation and achieve the firm target | | | | | |
| 4. Firm aware in take care and mentoring in employee | | | | | |
| operation continuously which will help employee in successful | | | | | |
| operation to existing target | | | | | |
| Human Capital Policy | | | | | |
| 5. Firm believes that employee in the firm is valuable asset and | | | | | |
| has important with the firm which will help firm management | | | | | |
| achieve the exist target | | | | | |



Section 5 (Continued)

| | | Level | of Agre | ement | |
|--|----------|-------|---------|-------|----------|
| Internal factor | Strongly | | Neutral | | Strongly |
| | Agree | | | | Agree |
| 6. Firm engrosses to activities investment in human resource | 5 | 4 | 3 | 2 | 5 |
| continuously which will help firm can more efficiency operation | | | | | |
| 7. Firm aware to extreme utilization from knowledge and | | | | | |
| ability of employee which will help firm operation more | | | | | |
| successes achievement | | | | | |
| 8. Firm supports employee in knowledge and ability | | | | | |
| development continuously which will help increase efficiency | | | | | |
| operation | | | | | |
| Organizational Resource Readiness | | | | | |
| 9. Firm believes that richness and fully of resource will help | | | | | |
| firm to more efficiency operation | | | | | |
| 10. Firm engrosses in budget allocation in fully separate | | | | | |
| department which help firm to good target efficiency | | | | | |
| achievement | | | | | |
| 11. Firm place important in more competency, knowledge and | | | | | |
| ability development of employee which will help firm to greatest | | | | | |
| operation and more target achievement | | | | | |
| | | | | | |
| 12. Firm engrosses in technology, technique and process development in operation continuously which will help firm can | | | | | |
| more operation target achievement | | | | | |
| | | | | | |
| Information Technology Capability 13. Firm believes that the good information technology will | | | | | |
| take a modern and efficiency operation | | | | | |
| 14. Firm place important in information technology investment | | | | | |
| continuously which will help firm has more best efficiency | | | | | |
| database system | | | | | |
| 15. Firm enhance employee to more learning and understanding | | | | | |
| the information technology system continuously which will help | | | | | |
| firm can better applied information technology in operation | | | | | |
| 16. Firm supports the follow up in advancement and growth up | | | | | |
| of information technology continuously which will help firm can | | | | | |
| use data in planning and developing in information technology of | | | | | |
| better efficiency operation | | | | | |
| Survival Culture | | | | | |
| 17. Firm believes that the firm culture that engrosses long term | | | | | |
| operational target will make clearly operation and good | | | | | |
| consistency with rapid competition | | | | | |
| 18. Firm always aware in continuous firm operational | | | | | |
| innovation will push on firm adaptation to better situation | | | | | |
| | | | | | |
| consistency 19. Firm enhance employee to predication in concrete future | | | | | |
| situation which will help firm in planning data on better operation | | | | | |
| 20. Firm engrosses in firm concrete development which will | | | | | |
| help firm can successful operation in both present and future | | | | | |
| nerp min can succession operation in both present and future | | | | | |



Section 6: Opinion on the external factor that impact on human resource development of auto parts businesses in Thailand

| | | Level | of Agr | eement | |
|---|------------|-------|---------|----------|------------|
| External factor | Strongly | Agree | Neutral | Disagree | 0. |
| | Agree 5 | 4 | 3 | 2 | Agree 5 |
| Environmental Complexity Force | | | | | |
| 1. In present day, the business competition is more rapidly | | | | | |
| course any firm engrosses to adapt and develop themselves | | | | | |
| continuously for them can better competition | | | | | |
| 2. In present day, business competition has more competitor | | | | | |
| course any firm has engrosses adaptation and development | | | | | |
| continuously which will help firm has better capability and | | | | | |
| ability in competition both present and future | | | | | |
| 3. The customer has more various need course any firm has | | | | | |
| adapt and search the new operation continuously for they can | | | | | |
| response customer need immediately | | | | | |
| 4. In present day, it has more modern technology course any | | | | | |
| firm must study, learning and applied to use that technology in | | | | | |
| maximum efficiency operation | | | | | |

Section 7: Recommendations and suggestions regarding human resource development of auto parts businesses in Thailand

Thank you for your time and attention to this matter. Please fold and return in provided envelope and return to the researcher. If you desire a summary report of this study, please give your business card attached with this questionnaire. The summary will be mailed to you upon the completion of data analysis.



APPENDIX G

Letters to Experts





บันทึกข้อความ

หน่วยงาน คณะการบัญชีและการจัดการ มหาวิทยาลัยมหาสารคาม โทรศัพท์ 043-754333-3431 Fax 043- 754422 ที่ ศธ.0530.10/ วันที่ 13 มิถุนายน 2560 เรื่อง ขอเรียนเชิญเป็นผู้เชี่ยวชาญตรวจสอบเครื่องมือวิจัย

เรียน อาจารย์ ดร.ประทานพร จันทร์อินทร์

ด้วย นายอภิ คำเพราะ นิสิตระดับปริญญาเอก หลักสูตรปรัชญาดุษฎีบัณฑิต (ปร.ด.) สาขาวิชาการจัดการ คณะการบัญชีและการจัดการ มหาวิทยาลัยมหาสารคาม กำลังศึกษาวิทยานิพนธ์ เรื่อง "ผลกระทบของศักยภาพ การพัฒนาทรัพยากรมนุษย์ที่มีต่อความสำเร็จของธุรกิจชิ้นส่วนยานยนต์ในประเทศไทย" ซึ่งเป็นส่วนหนึ่งของการศึกษา ตามหลักสูตรปรัชญาดุษฎีบัณฑิต ดังนั้น เพื่อให้การดำเนินการเป็นไปด้วยความเรียบร้อยและบรรลุตามวัตถุประสงค์ คณะการบัญชีและการจัดการ มหาวิทยาลัยมหาสารคาม จึงใคร่ขอความอนุเคราะห์ท่านเป็นผู้เชี่ยวชาญตรวจสอบ เครื่องมือวิจัยและข้อเสนอแนะเพื่อนำข้อมูลที่ได้ไปดำเนินการทำวิทยานิพนธ์ต่อไป ตามเอกสารแนบท้าย

จึงเรียนมาเพื่อโปรดพิจารณา

N- noisisal .

(รองศาสตราจารย์ ดร.สุวรรณ หวังเจริญเดช) รองคณบดีฝ่ายกิจการนิสิต รักษาการแทน คณบดีคณะการบัญชีและการจัดการ



บันทึกข้อความ

ทน่วยงาน คณะการบัญชีและการจัดการ มหาวิทยาลัยมหาสารคาม โทรศัพท์ 043-754333-3431 Fax 043- 754422 ที่ ศธ.0530.10/ เรื่อง ขอเรียนเชิญเป็นผู้เชี่ยวชาญตรวจสอบเครื่องมือวิจัย

เรียน รองศาสตราจารย์ ดร.ปพฤกษ์บารมี อุตสาหะวาณิชกิจ

ด้วย นายอภิ คำเพราะ นิสิตระดับปริญญาเอก หลักสูตรปรัชญาดุษฎีบัณฑิต (ปร.ด.) สาขาวิชาการจัดการ คณะการบัญชีและการจัดการ มหาวิทยาลัยมหาสารคาม กำลังศึกษาวิทยานิพนธ์ เรื่อง "ผลกระทบของศักยภาพ การพัฒนาทรัพยากรมนุษย์ที่มีต่อความสำเร็จของธุรกิจขิ้นส่วนยานยนต์ในประเทศไทย" ซึ่งเป็นส่วนหนึ่งของการศึกษา ตามหลักสูตรปรัชญาดุษฎีบัณฑิต ดังนั้น เพื่อให้การดำเนินการเป็นไปด้วยความเรียบร้อยและบรรลุตามวัตถุประสงค์ คณะการบัญชีและการจัดการ มหาวิทยาลัยมหาสารคาม จึงใคร่ขอความอนุเคราะห์ท่านเป็นผู้เชี่ยวชาญตรวจสอบ เครื่องมือวิจัยและข้อเสนอแนะเพื่อนำข้อมูลที่ได้ไปดำเนินการทำวิทยานิพนธ์ต่อไป ตามเอกสารแนบท้าย

จึงเรียนมาเพื่อโปรดพิจารณา

Sand Somelow

(ผู้ช่วยศาสตราจารย์ ดร.นิติพงษ์ ส่งศรีโรจน์) คณบดีคณะการบัญชีและการจัดการ





VITA



VITA

| NAME | Mr. Aphi Khamphroh | | | | |
|----------------|---|--|--|--|--|
| DATE OF BIRTH | October 10, 1981 | | | | |
| PLACE OF BIRTH | Khonkaen, Thailand | | | | |
| ADDRESS | 214 Kasikorntungsang Road, Sila Sub-District, Muang, | | | | |
| | District, Khonkaen, Thailand 40000 | | | | |
| POSITION | - | | | | |
| PLACE OF WORK | - | | | | |
| EDUCATION | | | | | |
| 2007 | Bachelor of Science | | | | |
| | Valaya Alongkorn Rajabath University, Platum Tani, | | | | |
| | Thailand | | | | |
| 2012 | Master of Business Administration | | | | |
| | Khonkaen University, Khonkaen, Thailand | | | | |
| 2018 | Doctor of Philosophy (Management) | | | | |
| | Mahasarakham University, Mahasarakham, Thailand | | | | |
| RESEARCH | | | | | |
| 2016 | Job Characteristic or Personality More Effect on Job | | | | |
| | Satisfaction and Behavioral Performance, Moderated by | | | | |
| | Leader-Member Exchange | | | | |
| 2016 | Leader-Member Exchange and Service Quality: Evidence | | | | |
| | from Hotel Businesses in Thailand | | | | |

