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Employee Knowledge Factors and Organisational Competitive Advantage – Conceptualization and Measurement

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Abstract

Organizations must have competitive advantage to survive, which is dependent on human resource capital. However, the relationships between employee knowledge factors and competitive advantage have not been explored well. Therefore, this paper proposes a conceptual framework for the relationships between employee knowledge factors and organizational competitive advantage and a scale for measuring the concepts. The proposed model that integrates knowledge factors and organizational competitive advantage includes four employee knowledge factors: academic qualification, professional qualification, training and development, and Peer-Peer Knowledge Sharing. The methodology used is the documents' analysis of the previous published articles to come out with the conceptual framework besides pilot testing to assess the scales' reliability.

Keywords: Competitive Advantage, Academic Qualification, Professional Qualification, Peer-Peer Knowledge Sharing, Training and Development

1. Introduction

An organization is an intentionally collaborative system in which the characteristics of individuals, groups, and organizations interact with one another, and effective interaction among them is heavily reliant on organizational culture, which shapes individual performance (Uddin et al., 2013). The term "competitive advantage," which is used in the field of strategic management, should be the starting point when discussing competitive advantages, according to Flint, who claims that it is the most overused and poorly understood catchphrase in the field (Cegliski, 2016). Moreover, there is currently confusion surrounding the phrase's expansion to "sustainable competitive advantage" (Flint, 2000). Porter also notes that the terms "competitive advantage" and "sustainable advantage" are now widely used (Porter, 1998). The pursuit of "competitive advantages" has been equated with "business strategy", but the idea of competitive advantages itself is surprisingly ill-defined (Gupta, 2020). A fundamental task of strategic management is to create and maintain an enterprise's competitive advantages, which should allow it to achieve above-average results from its business operations (Kartika & Kaihatu, 2020). If this is the case, achieving success by a given organization is equivalent to developing a competitive advantage (Eldor, 2020). Regardless of ongoing debates, the concept of competitive advantage is widely accepted in management sciences (Sutrisna et al., 2020). The concept of "competitive advantage" today has an undeniable significance for the theory and practice of strategic management (Cegliski, 2016). Despite the passage of time and a large body of scientific literature in the field of strategic management, it remains difficult to define the term "competitive advantage" (English, 2018).

Nowadays, it is widely accepted that knowledge enhancement entails more than just improving individual skills and abilities (Mormina, 2019). Because of this, comprehending employee knowledge development requires a more thorough analytical framework that considers the individual, organizational, and institutional analysis levels (Falk et al., 2019). Importantly, one frequently notices that even when available knowledge is not always easily translated into appropriate planning or effective action (Dyer et al., 2019). Weak institutions, particularly at local levels of government and in many communities, pose a significant problem, particularly for developing countries. Although this lagging or restricting effect is particularly evident in nations transitioning to modern economies, it is a problem for all societies as they constantly have to adapt their sectors to new external changes or internal demands (Chen et al., 2019).

Researchers have already identified numerous sources of organizational competitive advantages and various typologies of the same (Bergman & Feser, 2020). The concept of dynamic capabilities, which in fact develops the resource-based view of the organization, is, to a large extent, based on the issue, according to Mikalef et al's (2020) argument. However, there is still no agreement on how to conceptualize the key characteristics of dynamic capabilities, despite the urgent demand from scholars in the field for a cogent theory and model of dynamic capabilities. There is no general agreement in the international literature regarding how organizational competitive advantages should be comprehended and examined (Al Shobaki & Abu-Naser, 2017).



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To develop an organizational competitive advantage through appropriating rents from limited internal knowledge, the ability to transfer best practices internally is essential (Chiambaretto et al., 2019). This capability is dependent on the organizational culture of a given enterprise, or, more precisely, on whether it will be founded on organizational values that encourage the transfer of positive practices (Dhir, 2019). A recent trend in values is the relationship between a firm's activities that adhere to the concept of corporate social responsibility and organizational competitive advantages (Wang & Sarkis, 2017). Since the introduction of the term "organizational competitive advantages" in strategic management, it has been assumed that there are long-term organizational competitive advantages (Forrest & Nightingale, 2017).

Previous research indicates that competitive advantage is critical for organizations' success in addition to the employees' abilities. However, more research is needed to examine the relationships between employees' knowledge factors that form their qualifications and the organizational competitive advantage. As a result, this research aims to investigate the impact of various employee knowledge factors on organizational competitive advantage among ICT companies in Syria.

2. Literature Review

2.1. Organisational Competitive Advantage

According to the definition, a competitive advantage is "the higher rate of customer attraction to a company's offerings relative to its competitors" (Affran et al., 2019). According to the definition given above, a company must enhance crucial elements that influence the success of the related activities in order to achieve a sustainable competitive advantage (Aureli et al., 2019). Evidently, every company finds a unique strategy to develop a sustainable competitive advantage (Haseeb et al., 2019). In general, achieving this significant objective necessitates assessing the performance of the organization in regard to finances and other areas (Di Vaio & Varriale, 2020). In light of this, the current study discusses achieving a sustainable competitive advantage based on a balanced scorecard (Kang & Na, 2020).

In light of this, the current study discusses achieving a sustainable competitive advantage based on a balanced scorecard (Kang & Na, 2020). In the field of competitive strategies, the idea of competitive advantage has become a hot topic in recent years, and there has been much debate surrounding it (Kuik et al., 2019). The main definition of a competitive advantage is the ability of an organization to produce goods or services that customers perceive as being more valuable than those produced by rival organizations (Mahdi et al., 2019). Contrary, it also focuses on competitive advantage within the framework of competitive strategy (Shen et al., 2019). Moreover, a company's position in a competitive environment is determined by its competitive strategy (Saeidi et al., 2019). The goal of competitive strategy is to learn more about the market by comprehending and making predictions of economic factors, particularly the actions of other competitors (Na et al., 2019). Due to its competitive strategy, an organization creates a product that its rivals cannot produce (Dos Santos & Scharfenaker, 2019). As a result, the competitive strategy is a plan for establishing an imperfectly competitive market and maximizing an organization's potential competitive advantage by exhibiting distinctive behaviours that are reliable which the other organizations lack (Mahdi et al., 2019).

An organization's competitive advantage is dependent on both its external position and its internal capabilities (Mikalef et al., 2020). Organizations need to view their own strengths and weaknesses, as well as their position in the market, as sources of competitive advantage and marketing strategy, rather than as spate elements (Dani, 2019).

2.2. Academic Qualification

The meaning of "Academic Qualification" is that it is a degree of qualification that is rewarded to the students upon the victorious completion of a course of study in higher education, normally at the college or university (Holt, 2020). As a result, it's evident that the performance of the principal has a major impact on the quality of education that the students receive (Siayah et al., 2020). In order to be considered a qualified educator, one must demonstrate that they can successfully complete the learning process and master the material covered in each lesson (Chakroun, 2019). Consequently, qualifications signify that the necessary requirements are skills-based (Figueiredo et al., 2017). Since qualifications can demonstrate a person's reliability in performing a task (Wilcox & NicDaeid, 2018). Additionally, competencies required for performing a person's duties can be interpreted as qualifications (Muda et al., 2017). Moreover, principals play a crucial role in the organization's success through their performance in learning planning and implementation (Sligo et al., 2017).



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2.3. Professional Qualification

Professional qualifications are occupational degrees that frequently include a practical training component (Nurtanto et al., 2020). Professional qualifications in order to practice likewise, in order to obtain 'chartered status' in your chosen profession, you will be required to complete a professional qualification; for example, if you want to become a chartered accountant or a chartered engineer (Bohalteanu, 2016). As employees advance through the ranks of an organization, their achievements in each area are reflected in a variety of assessment scores (Howard, 2019). Employees' achievements may also be expressed verbally, through their ideas, words, and actions (Ali et al., 2019). Further, humans have the potential to accomplish a wide range of remarkable feats in the realm of education (Phan & Ngu, 2017). Academic advising, divisions, committees, and professional research groups are just a few examples of what might be considered "non-traditional learning contexts" (Gordon, 2020). Every company's "level of performance" reflects the fact that success is a process, not an endpoint, and that any given point in that process is just one location along the road to greater achievement (Foysal & Zhen, 2019).

The employee's professional and educational background can improve the likelihood of the employee's academic performance and accomplishments, so it's important to hire qualified people (Rumrill et al., 2019). A number of concerns have been raised by academics regarding the connection between employee qualifications and student achievement (Arslan & Roudaki, 2019). Because the success of a school ultimately rests on the shoulders of its faculty, this means that poorly trained new employees can have an impact on student outcomes (Thomas, 2019). Employees in organizations with adequate employee quality in history had significantly higher scores on achievement tests than employees in organizations with inadequate employee quality, as shown by the results (Hameduddin & Fernandez, 2019).

Parameters such as a) the credentials of the department's scientific staff, b) the organization of the courses, and c) the scope of the department's research areas all contribute to what is meant by "quality of the qualification education" (Theobald et al., 2020). However, the quality of an institution's education can be judged in part by looking at things like a) the percentage of graduates who find jobs, b) how much money they make, c) whether their employers are public or private, d) the industry and field in which they work (such as manufacturing or teaching), and e) how many graduates follow in their footsteps as postgraduate workers. Findings pertaining to the aforementioned variables are discussed (Somers et al., 2019).

2.4. Peer-Peer Knowledge Sharing

The term "knowledge sharing" refers to the "transfer of information from one person to another within an organization," which is what we mean when we talk about "peer to peer" knowledge (Tangaraja et al., 2016). Additionally, the social system of knowledge sharing, which encourages integration and collaboration and is typically made possible by technology (Al-Busaidi & Olfman, 2017). Als supported was the defined idea that an "appropriate mix" of technological channels should be used to maximize knowledge exchanges (Shonubi et al., 2020). Knowledge creation and dissemination are inherently uncontrollable processes (Josephides, 2020).

The creation of new knowledge as a result of this knowledge exchange can serve as a significant source of competitive advantage (Wang & Hu, 2020). It is not always natural for people to share their knowledge because they believe it to be valuable and significant (Hameed et al., 2019). The practice of sharing knowledge is primarily driven by and carried out at the individual level (Singh et al., 2019). Employees may share knowledge based on their own benefits and costs even when there are strong organizational norms against it (Ali et al., 2019). Knowledge sharing practices can ultimately assist organizations in becoming more successful and invincible (Kosaka & Nie, 2020).

An organization's knowledge is one of its most valuable assets because it is widely acknowledged as its primary source of competitive advantage and is essential to its long-term viability and success (Baporikar, 2020). Studies in the recent literature on knowledge management have examined a variety of critical success factors and constraints, including organizational culture, that influence knowledge management and the adoption of knowledge management systems (Al-Kurdi et al., 2020). Knowledge management and its effects on both individual and organizational performance, as well as the critical role that alignment between the two plays, have both been established (Samiei & Habibi, 2020).

2.5. Training and Development

Training, in the broadest sense, entails providing workers, both new and experienced, with the knowledge and abilities they need to do their jobs successfully (Acemoglu & Restrepo, 2018). The term "training and development" is used to describe the process of enhancing an employee's skill set, repertoire of techniques, and general awareness (Sanyal & Hisam, 2018). Training and development is formally defined as "any attempt to improve current or future employee performance by increasing an employee's ability to perform through learning, typically by changing the employee's



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attitude or increasing his or her skills and knowledge" (Garba, 2019). Deficits in performance are calculated as follows to establish whether or not an employee requires training and development (Ibrahim et al., 2017). Improvements in worker productivity can be achieved through training, which entails employees gaining new information, skills, concepts, rules, and mindsets (Sutha, 2016). Organizational performance can be greatly enhanced through training, which entails the execution of predetermined programmes with the goal of enhancing employees' academic expertise, professional abilities, personal qualities, and social conduct (Pinzone et al., 2019).

Programs designed for upper-level management are known as managerial development programmes, executive development programmes, or development programmes (Alizadeh et al., 2021).

Moreover, training helps people reach their full potential by giving them the opportunity to practice and hone their skills, which in turn reduces the risk of their jobs becoming obsolete and their careers stagnating (Hacker, 2017). Training and development programmes aid new hires in adjusting to the company's way of doing things, any new technologies they may be expected to use, and the overall work culture (Bell et al., 2017). Employee performance must be accurate and perfect to bridge the gap between planning and implementation. As companies set goals for their employees and expect them to accomplish those goals within a set amount of time and at a specified level of quality (Herrmann et al., 2000).

3. Conceptual Framework

In this study, a model of the relationship between an organization's competitive advantages and an employee's knowledge factors—their training and development, academic and professional qualifications, and peer-to-peer knowledge sharing—was proposed. Figure 1 shows the conceptual framework of this study.

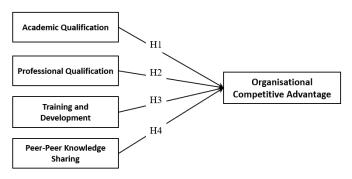


Fig 1. Conceptual Framework

The term "academic qualification" refers to a person's perceived level of scholastic excellence and the extent to which their education is exceptional (Mosry & Raju, 2020). That will help boost competitive advantage for the company at work (Singh et al., 2019). It makes sense to assume that higher levels of education directly and positively contribute to an organization's competitive advantage. Further, the employee's performance on the job will improve as their level of education does. In part, the findings of other studies are consistent with this assumption such as (Abubakar & Odock, 2018; Evelina, 2018).

• H1: Academic qualification has a significant relationship with organizational competitive advantages.

Professional qualification is a designation acquired by an individual to ensure qualification to carry out a project or task. It is also known as professional accreditation, a trade license, or a qualified designation (Bashirova & Sattarova, 2018). The more qualified employees there are, the better they will perform their duties and jobs, giving employers a competitive advantage through improved employee performance (Sweis et al., 2020). It stands to reason to assume that professional qualifications will have a significant positive direct impact on an organization's competitive advantages. Given that this hypothesis is consistent with some hypotheses from other research such as (Al Mamun et al., 2018; Le, 2020).

• H2: Professional qualification has a significant relationship with organizational competitive advantages.



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The goal of training and development is to improve the efficiency of establishments, as well as of the people who work there (Niati et al., 2020). The better an employee performs the duties and tasks that have been assigned to them, the more training and development they have received. which will improve the organization's workplace competitive advantage (Husti & Mahyarni, 2019; Le, 2020). Rationally, it is expected that there is a significant positive direct effect of training and development on organizational competitive advantages. There are other studies where this hypothesis is consistent with their findings, including (Al Mamun, Nawi, Ibrahim, & Muniady, 2018; Evelina, 2018).

H3: Training and development has a significant relationship with organizational competitive advantages.

The term "peer-to-peer knowledge sharing" refers to the practice of exchanging information and expertise between individuals, groups, families, communities, and businesses (Alsharo et al., 2017; Singh et al., 2019). The more open an employee is about sharing their strengths, the more effectively they will carry out their duties. Which Will Help Businesses develop a competitive advantage in the Workplace (Hili et al., 2017; Le, 2020). Peer-to-Peer Knowledge Sharing is hypothesized to have a direct, positive impact on an organization's competitive advantages. Considering the consistency of this hypothesis with those of other studies, such as (Hamadamin & Atan, 2019; Huang, Chang, & Yeh, 2020).

H4: Peer-Peer Knowledge Sharing has a significant relationship with organizational competitive advantages.

4. Instrument Development (Measuring Scales)

Examining the connections between variables is the main goal of descriptive research. Additionally, the study's proposed hypotheses are evaluated using the variables (Creswell & Creswell, 2017). There are four main constructs in the study, and it is crucial to use the right instrument to measure each one. A questionnaire that has been modified from earlier studies is created for those constructs. Furthermore, r reliability and validity procedures are followed in order to ensure the survey's quality and applicability. The adapted survey instruments are as follows:

- Academic qualification variable have five questions that adapted based on previous sources (Duffy, Guiffrida, Araneda, Tetenov, & Fitzgibbons, 2017; Nowiński, Haddoud, Lančarič, Egerová, & Czeglédi, 2019).
- Professional qualification variable have four questions that adapted based on previous sources (Daniels, 2017; Price, Biernacki, & Nora, 2018).
- Training and development variable have six questions that adapted based on previous sources (Nassazi, 2013; Ferreira, 2016).
- Peer-to-peer knowledge sharing variable have seven questions that adapted based on previous sources (Chiu et al. 2006).
- Competitive advantages variable have eleven questions that adapted based on previous sources (Agha, Alrubaiee, & Jamhour, 2012; Moore & Fairhurst, 2003).

Moreover, the questionnaire items that were adapted for this study are as follows:

1) Academic Qualification

- My degree (Bachelor/Postgraduate) is strongly related to my work duties.
- The colloquium of my study have a significant impact on my work performance.
- My highest degree is earned from:
 - () Syria () Arab world () Eastern Country () Western Country () Other _____
- I earned my highest degree from one the top ranked institutions in the country.
- I earned my highest degree from one the top ranked institutions in the world.
- In my study, I conducted a professional and relevance internship (practical experience) program.
- In my study, the courses are highly integration between theory and practice.

2) Professional Qualification

- I have at least one professional certificate that relevant to my professional.
- I periodically renew/update my professional certificate as required.
- I always keep learning and update my knowledge for any changes to the certificates I have.
- I periodically attend professional training in relevance to my work and professional.



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3) Training and Development

- The quality of the training programme/s, which I have Participated is excellent.
- The relevant of the trainings I received to my work is very effective.
- I strongly believe that training has helped improve my job performance.
- The methods used during training have high impact on my skills.
- The company conducted training frequently.
- The company do collection of relevant information to see what training people need.

4) Peer-To-Peer Knowledge Sharing

- knowledge is shared frequently among employees.
- Employees share their knowledge and expertise voluntarily.
- Employees share knowledge with people from other divisions.
- The knowledge shared by employees is easy to understand.
- The knowledge shared by employees is accurate.
- The knowledge shared by employees is reliable.
- The knowledge shared by employees is timely.

5) Competitive Advantages

Flexibility

- The company management assurance material and moral support to meet the needs and aspirations of current and future clients
- The company's management gives staff complete freedom to complete the work entrusted to them.
- The company's management work on develop the employee performance and improve their skills as required by the market of renewable.
- The company's management seeks to know the characteristics of the market for the preparation of strategies and tactics appropriate for any situation possible current and future.
- The relationship between management and employee Features to efficiency and effectiveness in order to complete customer orders.

Responsiveness

- Our operations system responds rapidly to changes in product volume demanded by customers.
- Our operations system effectively expedites emergency customer orders.
- Our operations system rapidly reconfigures equipment to address demand changes.
- Our operations system rapidly reallocates people to address demand changes.
- Our operations system rapidly changes manufacturing processes to address demand changes.
- Our operations system rapidly adjusts capacity to address demand changes.

5. Conclusions and Recommendations

Organizations need the right resources if they want to perform exceptionally well. The organization's greatest asset is its workforce, and organizational knowledge is correlated with employee knowledge and the manner in which employees share this knowledge. As a result, there are four sources of knowledge for employees in an organization: "academic qualification, professional qualifications, training and development, and peer-to-peer knowledge". This study contributes to knowledge by defining the four constructs of the employees' knowledge factors that affect the organizational competitive advantage. In addition, the scales for those variables are proposed as well. Future work is required to empirical examine the model in different contexts.

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