การพัฒนากลยุทธ์ทางจิตวิทยาแนวภาวะผู้นำที่แท้จริงเพื่อเสริมสร้างกรอบคิด วัฒนธรรมนวัตกรรมการปฏิบัติงาน

ภูธนวรรธน์ จันชูมี

มหาวิทยาลัยเกษมบัณฑิต 1761 ถนนพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร 10250 E-mail: jeff_chanch@yahoo.com ประสาร มาลากุล ณ อยุธยา

มหาวิทยาลัยเกษมบัณฑิต 1761 ถนนพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร 10250 ผ่องพรรณ เกิดพิทักษ์

มหาวิทยาลัยเกษมบัณฑิต 1761 ถนนพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร 10250

ติดต่อผู้เขียนบทความที่ **ภูธนวรรธน์ จันซูมี** มหาวิทยาลัยเกษมบัณฑิต 1761 ถนนพัฒนาการ เขตสวนหลวง กรุงเทพมหานคร 10250 E-mail: jeff_chanch@yahoo.com

วันที่รับบทความ: 8 เมษายน 2562 วันที่แก้ไขบทความ: 16 ธันวาคม 2563 วันที่ตอบรับบทความ: 30 ธันวาคม 2563

บทคัดย่อ

วัตถุประสงค์ เพื่อศึกษากรอบคิดวัฒนธรรมนวัตกรรมการปฏิบัติงาน พัฒนากลยุทธ์ทางจิตวิทยาแนวภาวะผู้นำที่แท้จริง ประเมินผลของการใช้กลยุทธ์ทางจิตวิทยาแนวภาวะผู้นำที่แท้จริง และ ประเมินความพึงพอใจของกลุ่มตัวอย่าง วิธีการวิจัย เป็นแบบผสานวิธี โดยวิธีการเชิงปริมาณ และวิธีการเชิงคุณภาพ ศึกษาจากกลุ่มตัวอย่างผู้บริหารระดับต้น ในอุตสาหกรรมการผลิตชิ้นส่วน ยานยนต์ จำนวน 365 คน เครื่องมือที่ใช้ในการวิจัย เป็นแบบวัดกรอบคิดวัฒนธรรมนวัตกรรมการ ปฏิบัติงาน และกลยุทธ์ทางจิตวิทยาแนวภาวะผู้นำที่แท้จริงค่า IOC ระหว่าง 0.60 − 1.00 และค่า α = 0.94 โดยเปรียบเทียบ ก่อนการทดลอง หลังการทดลอง และหลังการติดตามผลและใช้การ ประเมินความพึงพอใจกลุ่มทดลองด้วยการจัดสนทนากลุ่มเฉพาะ (focus group) ภายหลังการทดลอง วิเคราะห์ข้อมูลหลักโดยสถิติเชิงเปรียบเทียบ ด้วยการวิเคราะห์ความแปรปรวนของ Friedman ผลการวิจัย หลังการทดลอง และหลังการติดตามผล ผู้บริหารระดับต้นกลุ่มทดลองมี คะแนนกรอบคิดวัฒนธรรมนวัตกรรมการปฏิบัติงานโดยรวมสูงกว่าก่อนการทดลองอย่างมีนัยสำคัญ ทางสถิติที่ระดับ .01 และภายหลังการติดตามผลเป็นระยะเวลา 1 เดือน พบว่า กรอบคิดวัฒนธรรม นวัตกรรมการปฏิบัติงานโดยรวมและรายด้านของกลุ่มทดลองสูงขึ้นอย่าง ต่อเนื่อง สรุป กลยุทธ์ทางจิตวิทยาแนวภาวะผู้นำที่แท้จริงเป็นนวัตกรรมสำคัญในการเสริมสร้าง กรอบคิดวัฒนธรรมนวัตกรรมการปฏิบัติงานของผู้บริหารระดับต้นทั้งโดยรวมและรายด้านจองกลุ่มทดลองสูงขึ้นอย่าง ต่อเนื่อง สรุป กลยุทธ์ทางจิตวิทยาแนวภาวะผู้นำที่แท้จริงเป็นนวัตกรรมสำคัญในการเสริมสร้าง กรอบคิดวัฒนธรรมนวัตกรรมการปฏิบัติงานของผู้บริหารระดับต้น

คำสำคัญ: กลยุทธ์ทางจิตวิทยาแนวภาวะผู้นำที่แท้จริง กรอบคิดวัฒนธรรมนวัตกรรมการปฏิบัติงาน

The Development of Authentic Leadership Psychological Strategies for Enhancing Innovative Culture Mindset on Job Performance

Bhuthanawat Chanchoomee Kasem Bundit University, 1761 Pattanakarn Road, Suan Lang, Bangkok 10250 E-mail: jeff_chanch@yahoo.com

Prasarn Malakul Na Ayudhya

Kasem Bundit University, 1761 Pattanakarn Road, Suan Lang, Bangkok 10250 Pongpan Kirdpitak

Kasem Bundit University, 1761 Pattanakarn Road, Suan Lang, Bangkok 10250

Correspondence concerning this article should be addressed to **Bhuthanawat Chanchoomee**Kasem Bundit University, 1761 Pattanakarn Road, Suan Lang, Bangkok 10250
E-mail: jeff_chanch@yahoo.com

Received date: April 8, 2019 Revised date: December 16, 2020 Accepted date: December 30, 2020

ABSTRACT

PURPOSES: To study the innovative culture mindset on job performance, to develop authentic leadership psychological strategies for enhancing innovative culture mindset, to evaluate the results of the use of authentic leadership psychological strategies for enhancing innovative culture mindset on job performance of first-line managers, and to evaluate the satisfaction of the sample group with the developed strategies. **METHODS:** The research design was a mixed methods design using both quantitative and qualitative methods, and studied 365 participants who were first-line managers in the automotive industrial parts manufacturing sector, with the rating scales on the innovative culture mindset on job performance and the psychological strategy for authentic leadership to enhance innovative culture mindset in first-line managers with the IOC from the three experts ranging 0.60-1.00 and $\propto = 0.94$. The pretest-posttest and follow up design for comparison employed Friedman's ANOVA test, and focus group discussion was used for satisfaction assessments. **RESULTS:** The innovative culture mindset on job performance of first-line managers of the experimental group after the experiment and after the followup were significantly higher than before, at the .01 level. CONCLUSION: Authentic leadership psychological strategies are an important innovation in strengthening the innovative culture mindset on job performance of first-line managers.

Keywords: Authentic leadership psychological strategies, innovative culture mindset on job performance

Introduction

Innovation refers to thinking, practice, knowledge, management skills, and the application of scientific and technological experiences to invent, create, and develop the products and services production processes, including new organization management The efficient innovation approach. development of all levels corresponding to rapid change steers the success of the organization and enhances sustainable competitiveness (Office of the National Economic and Social Development Innovations 2012). that Board, developed simultaneously with growth of an organization lead to sustainable and continuing development. If the organization could develop until eventually having ideas, beliefs, and understanding of innovation practices, finally become innovations, the organization would be well-prepared and corresponding adjustment changes since the members would be able to continually create and accept the changes. Therefore, procedural development of personnel, who are the important resource organization, as well as the adaptation of development strategies to suit the period of time, should be considered as crucial to the utmost degree (Malakul Na Ayudhya, 2013).

The significant factor for the success and effective development of an organization is the executive or the leader who has a growth mindset and is ready to move into the new culture approach. A genuine leader should drive the organization to achieve its set goals (Tripitaka, 2002; Kunponkaew, 2018) and reinforce the innovation culture to become the mutual culture of all

members. The organization where the researcher is employed is a manufacturer of automotive parts with a great increase in business growth ratio and rapid expansion rate, including high business competition. Thus, the organization needs learning adaptation to compete with other manufacturers and readiness disruptive changes anv competition. The organization has lately implemented new projects improvement projects as a strategy to development, under responsibility of the first-line manager, who has to manage his/her team resources, and members, time efficiently respond to the customers' demands for effective performance. Presently, the problems of the project involve the delay in deliveries, lack of efficient budget management, and lack of the creation of innovation practices for the highest-efficiency work (Autoliv Employee Development System, 2016).

obtain more To accurate information through empirical data, the present researchers studied various situations related to practicing innovation culture in an organization, in accordance with the four core cultures (Autoliv Employee Development System, 2016). The first core culture is knowledge, consisting of the acquisition of learning opportunities and constant research and development. Second, would be the people terms of responsibility, policies, and acceptance organization's goals, courage to future-oriented. open-mindedness, respect for others' opinions, and care about the impact on others. Third, is the which includes innovation steering and implementation, continuous process development, and innovation integration. Lastly, is a collaboration involving teamwork and recognition of the teamwork value, agility, flexibility, preparation for changes, and selfadjustment.

The present researchers used an indepth interview about innovation culture with 35 executives. The results showed the management of first-line managers lacked the ideas, beliefs, and understanding of the practice innovation culture. It can be determined from the project management results that the delivery plan does not meet the customer requirements. Focus solely on the success of the work, with lack of consideration of innovative culture, makes project completion accomplished with the effectiveness of the work and helps create a better quality of life. In addition, the first-line managers still lack ideas, beliefs, and understanding of the connection relationships and innovative culture, causing the problems leading to underachievement of the organizational goals. This eventually reflected the necessity for innovative culture mindset development in first-line managers, as they are the key mechanism the successful project steer management. This conclusion happened to concur with the concept of Dweck (2016), who proposed that it is not only the leader and follower who need to work with the team, but also that "the mindset" is a vital factor of success, as mindset includes the ideas and beliefs affecting the behavior. The leader must have the growth mindset based on the notion that everyone has the ability to develop his/her competency from learning, experience, and application (ibid).

It should, therefore, be obviously concluded that the first-line managers of the organizations in the automotive parts industry need to be strengthened in the

practice of the innovative mindset, which would lead them to be competent and consistent in thriving, sustainable development. The leader should be able to change the mindset by eliminating the fixed mindset and implanting the growth mindset focusing on the innovation culture (Denison, 1991; Dweck, 2016). This was also consistent with the concept of Covey (2002), who stated that a change to a new mindset leads to different perspectives. change executive's of the perspectives would then enable the change of more diversification through innovation culture (Covey, 2002).

The accumulative study on personnel development indicated that organizations, most including organization where the present researcher is employed, have mostly implemented a training approach to enhance learning to develop personnel and the executive through knowledge transfer. The method to create the imitated behavior of a successful person was utilized as a shortcut model for the personnel to implement in their work, which did not originate from the change of ideas or beliefs of the individual to affect the real change of behavior. Consequently, the projects encountered initiated unsuccessful performance, as presented by the empirical data, mentioned above. The present researcher, as an executive, foresaw the need for behavioral change, which should begin from the improvement of ideas, beliefs, and understanding of the personnel in the organization, particularly the first-line managers who were the target group, to have the mindset leading to the change of leadership behavior, to mobilize the sustainable practice of innovation culture. Different development strategies from the traditional training were, therefore, required to make the change to the mindset of the target group.

The literature review concerning the creation of innovation culture mindset began with the leader or implanting leadership to the members (Dweck, 2016). The accumulative study the characteristics of authentic leadership revealed that an authentic leader had stability in word, actions, positive self-value, self-consciousness, transparent and sustainable relationships, and determination to achieve the goal. The synthesis of practical authentic leadership strategies to promote the practice of innovation culture in first-line managers eventually was comprised of strategies: self-awareness: six internalized moral and ethical perspective; establishing a positive, and lasting relationship; transparent, humbleness and being a good role model; commitment and resilience to overcome obstacles; and leaving a cultural legacy. The development guidelines required learning psychological concepts approaches, which played a significant role in developing the practitioner to be knowledgeable and more capable to change his/her behavior sustainably (Dweck, 2016).

The concepts and approaches of the psychology of learning practices for selfdevelopment to become an authentic leader appear highlight selfexperience, a positive perspective on experiences, and self-action. Experiential learning was the learner-centered approach used to make the practitioners learn from direct experience, to analyze, and to summarize it as the core concept to apply to future practice. This was the integration to new learning (Kolb, 2015). Positive psychology capital, or PsyCap, was the state of positive psychology of development individual that expressed through having confidence in work, attempting a challenging mission, and the determination to overcome problems and obstacles to achieve success (Seligman, 1998). Modeling was the learning process from direct selfexperience and observation of others' behavior. the understanding differences influences and diverse morals, ethics, and values of the individual, as well as comprehension of the psychological and ethical principles (Bandura, 1986). Participative action learning was learning from group action, based on the learner's experiences to group's reflect the conceptual performance, leading to continual new knowledge, new different solutions, knowledge exchange among members, and knowledge to try out in the actual situation (Marquardt, 1999).

The above analysis, conclusion, and synthesis of the authentic leadership psychological strategies indicated a distinct innovation from conventional training strategies and other traditional development approaches. Furthermore, this would be beneficial in conducting an empirical study to evaluate the use of these newly-created strategies for enhancing innovative culture mindset on job performance of first-line managers in the automotive parts industry.

Research Objectives

- 1. To study the innovative culture mindset on job performance of first-line managers in the automotive parts industry.
- 2. To develop the authentic leadership psychological strategies for enhancing innovative culture mindset in

first-line managers in the automotive parts industry.

- 3. To evaluate the implementation of the psychological strategies for authentic leadership to strengthen the innovative culture mindset in first-line managers in the automotive parts industry, comparing with the practice of the innovation culture of the experimental group, before and after the experiment and after the follow-up.
- 4. To evaluate the satisfaction of first-line managers toward the developed psychological strategies after the experiment through focus group discussion.

Hypothesis

The level of the innovation culture mindset strengthened by the developed psychological strategies for the authentic leadership in first-line managers after the experiment and after the follow-up would be higher than before the experiment.

Research Methods

1. Research design

mixed methods design implemented a quantitative method, which included the measurement of the practice of the innovative culture mindset of first-line managers and the evaluation of the psychological strategies for authentic leadership, through pretest, post-test, and follow-up design that were utilized with the qualitative method, involving an interview with the executive to examine problems and obtain the empirical data from the sample group to create the definitions, measurement, and research instrument, as well as conduct the focus group discussion of the experimental group, after implementing the psychological strategies for authentic leadership.

2. Population and sample group

The population was 2,250 first-line managers in the automotive parts industry at the Amata City Industrial Estate, Cholburi Province, Thailand. The sample group consisted of two subgroups.

- 2.1 Firstly, the sample group for studying the practice of the innovative culture mindset was comprised of males and females from the population group, multi-stage sampled from the population to obtain 345 samples (Kanjanawasi et al., 2017).
- 2.2 Secondly, the sample group evaluating the use of for the psychological strategies for authentic leadership consisted of 20 persons, purposively selected from the first group, with the moderate score level for the innovative culture mindset and voluntarily participated in the project.

3. Research instruments

- 3.1 The rating scale of the innovative culture mindset on job performance of first-line managers in the automotive parts industry consisted of four aspects of the innovative culture mindset, with the Index of Item Objective Congruency (IOC) ranging between 0.60-1.00, the item discrimination between 0.486-0.782, and the reliability coefficient (alpha) of 0.94.
- 3.2 The psychological strategies for authentic leadership of the innovative culture mindset in first-line managers with the IOC from the three experts ranged from 0.60-1.00.
- 3.3 The focus group discussion among the experimental group was conducted after implementing the authentic leadership psychological strategies for enhancing innovative culture mindset on job performance of first-line managers.

Data Collection and Analysis

- 1. The qualitative data concerning the practice of the innovative culture mindset on job performance of first-line managers were collected by interviewing 35 executives, and the results of the four aspects were concluded to create the operational definitions and rating scale of the innovative culture mindset on job performance of first-line managers in the automotive parts industry.
- 2. The rating scale of the innovative culture mindset on job performance of first-line managers was validated by using the IOC from three experts. The research scale was then applied to the 345 samples to obtain the item discrimination and reliability.
- 3. The innovative culture mindset on job performance of first-line managers was determined by collecting data from the sample group of 345 participants and analyzing statistical data by using the statistical program.
- 4. The data were collected by using psychological authentic leadership strategies with the experimental group of participants, according operation plan of eight times of three hours each and collecting data after a one-month follow-up. The statistical data were analyzed according to the research objectives, such as the mean and standard deviation. examining the score distribution of the innovative culture mindset of the experimental group, and applying non-parametric statistics to compare the score level of the innovative culture mindset of the experimental group.
- 5. The qualitative data were collected to evaluate the satisfaction of the executives toward the psychological strategies for authentic leadership, using the focus group discussion after the

experiment, and analyzing the qualitative data using analytic induction.

Research Results

- 1. The research results of the innovative culture mindset on job performance of 345 first-line managers indicated that the overall mean score and scores of each aspect, including knowledge, people, and process were at a high level ($\overline{X}=3.88,\ 4.16,\$ and 3.99, respectively) while collaboration was found to be at the highest level ($\overline{X}=4.22$).
- 2. The study and development results of the authentic leadership psychological strategies for enhancing innovative culture mindset on job performance of first-line managers were comprised of six strategies: awareness: internalized moral and ethical perspective; establishing a positive, transparent, and lasting relationship; humbleness and being a good role model; commitment and resilience to overcome obstacles; and leaving a cultural legacy. mobilized psychological four concepts, in terms of experiential learning, positive psychology capital (PsyCap), social learning from modeling, and participative action learning were applied to steer the six strategies.
- The evaluation results implementing leadership authentic psychological strategies for enhancing innovative culture mindset on job of first-line performance managers revealed that the average overall score of first-line managers in the experimental group before the experiment was at a high level ($\overline{X} = 3.80$, SD = 0.23) while after the experiment and after follow-up was at the highest level ($\overline{X} = 4.33$, SD = 0.29 and $\overline{X} = 4.44$, SD = 0.39, respectively). Refer to Table 1.

Table 1 The means of the innovative culture mindset on job performance of first-line managers of the experimental group, before and after the experiment and after

the follow-up in each aspect and overall (n=20)

the follow-up in each aspect and overall (n=20)											
Innovative	Experimental group (n=20)										
culture mindset		Pre-tes	st		Post-te	est	After the follow-up				
on job performance of	\overline{X}	SD	Inter	\overline{X}	SD	Inter	\overline{X}	SD	Inter		
first-line			preta			preta			preta		
Managers			tion			tion			tion		
Knowledge	3.55	0.39	High	4.19	0.41	High	4.36	0.49	Highest		
People	4.05	0.27	High	4.41	0.31	Highest	4.52	0.40	Highest		
Process	3.59	0.39	High	4.28	0.40	Highest	4.38	0.48	Highest		
Collaboration	4.02	0.56	High	4.44	0.38	Highest	4.51	0.48	Highest		
Average	3.80	0.23	High	4.33	0.29	Highest	4.44	0.39	Highest		

the experiment, experimental group of first-line managers had a high average score of the overall innovative culture mindset whereas it was at the highest level after the experiment follow-up. and When considering each aspect, including knowledge, people, process, and collaboration, before the experiment, they were at a high level; knowledge after the experiment was at a high level while people, process, and collaboration were at the highest level. Moreover, after follow-up, knowledge, process, and collaboration were at the highest level.

The normality test showed that the average of the innovation culture mindset after the experiment and follow-up had an irregular curve of distribution, which

was considered to be the significance of < .05. Therefore, the present researchers had to use non-parametric statistics to compare the data before and after the experiment and after the follow-up. It was found that the overall average scores of the experimental group, before and after the experiment and after the followup, were different, with a statistical significance of .01 ($X^2=29.792$). When comparing each aspect, knowledge, people, and process were different, with a statistical significance of .01 while collaboration was different, with a statistical significance of .05. To test the average score of the practice of the innovative culture mindset, overall and by each aspect, at a specific period of comparison time, a paired conducted. Refer to Table 2.

Table 2 Comparison of the results of the overall scores and by each aspect of the innovative culture mindset of the experimental group, before and after the experiment and after the follow-up in the pair, by using Wilcoxon matched pairs signed ranks test (n = 20)

	eu ranks				D . E	11	T	1
Innovative	Pre-test		Post-test		Post Follow-			
culture mindset					up			
on job	Med	IQR	Med	IQR	Med	IQR	Comparison	Z
performance of								
first-line								
managers								
Knowledge	21.00	3.75	24.50	3.75	25.50	6.00	Pre-test and Post-test	-3.674**
							Pre-test and Post-test	-3.833**
							Pre-test and Post-test	986
People	20.00	2.00	24.50	3.75	23.00	3.75	Pre-test and Post-test	-2.745**
							Pre-test and Post-test	-3.253**
							Pre-test and Post-test	834
Process	14.00	2.75	17.00	2.75	16.50	4.00	Pre-test and Post-test	-3.714**
							Pre-test and Post-test	-3.630**
							Pre-test and Post-test	695
Collaboration	16.00	2.75	18.00	2.75	19.00	4.00	Pre-test and Post-test	-2.359**
							Pre-test and Post-test	-2.589**
							Pre-test and Post-test	548
Overall	71.51	6.50	83.00	12.25	86.00	14.50	Pre-test and Post-test	-3.809**
							Pre-test and Post-test	-3.920**
							Pre-test and Post-test	-1.045

** Statistical significance of .01

An analysis of the results indicates that the average score of the practice of the innovative culture mindset, overall and by each aspect, of first-line managers in the experimental group, after the experiment and follow-up, was higher than before the experiment, with a statistical significance of .01. The score after the experiment and follow-up was similar. This reflected that the test result of the authentic leadership psychological strategies was retained during the follow-up period.

4. An analysis of the results of the quality data obtained from the focus group discussion, evaluating the satisfaction toward the authentic leadership psychological strategies for enhancing innovative culture mindset of the experimental group, using analytic

induction, showed that the satisfaction was at a high level.

Conclusions

- 1. The total mean score of innovative culture mindset of first-line managers was high; each dimension of knowledge, people, and process was high while the dimension of collaboration was at the highest level.
- 2. Authentic leadership psychological strategies for enhancing innovative culture mindset on job performance of first-line managers included six qualities, comprised of: 1) self-awareness; 2) internalized moral and ethical perspective; 3) establishing a positive, transparent, and lasting relationship; 4) humbleness and being a good role model; 5) commitment and resilience to overcome obstacles; and 6) leaving a culture legacy. They were

enhanced from psychological concepts comprised of experiential learning, positive psychology capital (PsyCap), modeling, and participative action learning.

- 3. The innovative culture mindset on job performance of first-line managers of the experimental group, after the experiment and after the follow-up, was significantly higher than before the experiment, at a .01 level.
- 4. A focus group report of the experimental group showed that the satisfaction was at the highest level with the authentic leadership psychological strategies for enhancing innovative culture mindset on job performance.

Discussion

The research results were discussed according to the objectives and hypothesis, as follows:

- 1. The research results of the innovative culture mindset on job performance of first-line managers in the automotive parts industry with 345 samples indicated that the total mean score of innovative culture mindset of first-line managers was high; each dimension of knowledge, people, and process was high while the dimension of collaboration was at the highest level. However, the empirical data and the results of the interview with the executive indicated that the new projects and development projects still had problems obstructing expected the achievement, caused by the weakness of the authentic leadership of first-line managers, who were considered to be the key factor to steer the innovation culture of the organization (Autoliv Employee Development System, 2016).
- 2. As for the authentic leadership psychological strategies for enhancing the innovative culture mindset on job

performance of first-line managers, the developed present researchers psychological strategies comprised of: self-awareness; internalized moral and ethical perspective; establishing positive, transparent, and lasting relationship; humbleness and being a good role model; commitment and resilience to overcome obstacles; and leaving culture legacy. Four psychological learning concepts and procedures were utilized steer psychological strategies through experiential learning, positive psychology capital (PsyCap), modeling, and participative action learning. The created strategies appeared to concur with the body of knowledge and research development of authentic the leadership from both the Western and Eastern perspectives (Gardner, 2005; Luthans et al., 2007; George & Sims, 2007). Eventually, the acquired learning experiences allowed the first-line managers to be well-prepared and competent for problem-solving in the changing situations. An analysis of the results indicated that the average score of the practice of the innovative culture mindset, overall and by each aspect, of first-line managers in the experimental group, after the experiment and followup, was higher than before experiment, with a statistical significance of .01 because learning from experience occurred. creating a positive had perspective. There is a learning process that takes place both from real practice and learning that arises from social learning by learning from models. The experience of learning will enable the first-line managers to use the experience to solve problems when facing similar situations.

3. The evaluation results of implementing authentic leadership psychological strategies for enhancing innovative culture mindset on job of first-line performance managers showed that the overall mean score of the innovative culture mindset and each aspect was higher than before the experiment, with statistical significance and consistent with the research hypothesis. This was because the use of the authentic leadership psychological strategies could stimulate the participants to pursue knowledge and to learn by continually searching for new concepts and innovations, and to take part in new tasks by quickly learning from their failures and successes. Additionally, this with study concurred the of who Yungsuksathaporn (2016).discovered that innovative culture occurred because the organization's members shared their engaged sense and goals, were aware of the necessity to create innovations, developed teamwork to enhance innovations, and implemented leading to action in work performance. Moreover, this coincided with the research of Surapitchpong (2017), which indicated that learning by doing maximizes the understanding of the sample. The findings from the present research also revealed participation in planning encouraged the first-line managers' determination to accomplish the goals together, with increasing self-awareness, adjustment, future-oriented courage, and self-pride. The authentic leadership psychological strategies could, therefore, be considered

a new approach for enhancing innovative culture mindset on job performance of the sample group.

Recommendations

1. Recommendations for application

The research findings demonstrated that first-line managers had improved the innovative culture mindset after participating in the developed strategies, both after the experiment and follow-up. Thus, first-line managers who had not learned about the authentic leadership psychological strategies for enhancing innovative culture mindset on job performance of first-line managers should be educated and trained. The authentic leadership strategies should then be included in the curriculum for developing both the first-line managers and the organization's personnel, as a whole.

- 2. Recommendations for further research
- 2.1 Development of research instruments should be conducted to have more variety of tools and content.
- 2.2 The follow-up period should be extended with an interval for evaluation, such as three months, six months, or one year, in order to acquire more empirical data about the sustainability of the practice of the innovative culture mindset.
- 2.3 More variety of designs of qualitative research should be conducted to examine in-depth empirical data for this line of research.

References

- Autoliv Employee Development System. (2016). https://lifenet.alv.autoliv.int/hr/Pages/Development-SubPage.aspx.
- Bandura, A. (1986). Social foundation of thought and action. Englewood Cliff.
- Covey, S. R. (2002). The 7 habits of highly effective people. Simon and Schuster.
- Denison, D. R. (1991). Corporate culture and organizational effectiveness. Sage Publications.
- Dweck, C. S. (2016). *Mindset, the new psychology of success: How we can learn to fulfill our potential*. Random House.
- Gardner, W. L., Avolio, B. J., & Walumbwa, F. O. (2005). *Authentic leadership theory and practice: Origins, effects and development*. Emerald Group Publishing.
- George, B., & Sims P. (2007). True North discover your authentic leadership. Jossey-Bass.
- Kanjanawasi, S., Piyanon, T., & Srisuko, D. (2017). *Selection of appropriate statistics for research*. Chulalongkorn University Press.
- Kolb, D. A. (2015). Experiential learning: Experience as the source of learning and development. Pearson Education.
- Kunponkaew, J. (2018, March 11). Promotion of innovation culture: Innovation culture. *Bangkokbiznews*, 3-5.
- Luthans, F., Youssef, C. M., & Avolio, B. J. (2007). *Psychological capital: Developing the human competitive edge*. Oxford University Press.
- Malakul Na Ayudhya, P. (2013). *Teaching documentation, paradigms and strategies for human life span development*. Kasem Bundit University.
- Marquardt, M. J. (1999). Action learning in action: Transforming problems and people for world-class organizational learning. Davies-Black Publishing.
- Office of the National Economic and Social Development Board. (2012). *The national economic and social development plan: The eleventh plan (2012-2016)*. http://www.nesdb.go.th/nesdb_en/Main.php?filename=develop_issue.
- Seligman, M. (1998). Learned optimism. Pocket Book.
- Surapitchpong, S. (2017). The development of the management model of awareness and awareness management while operating for enhancing the quality of life for elderly people with hypertension [Unpublished doctoral dissertation]. Kasem Bundit University.
- Yungsuksathaporn, P. (2016). Creating an innovative culture. *Productivity World Journal*, 19, 1-4.