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IMPACT OF CONTINUOUS IMPROVEMENT ON CUSTOMER ORIENTATION: ANALYTICAL STUDY OPINIONS FROM A SAMPLE OF NSS/CSD STAFF

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ABSTRACT:

The aim of current research is to highlight the impact of continuous improvement on customer orientation. The research adopted resolution as a basic measurement tool for collecting data from the eye in question, which reached 141 out of approximately 150 members of the cyber security department of the Iraqi National Security Service, where it was employed to test the main and sub-research assumptions by using a number of statistical methods, most notably (SPSS VR). 24, AMOS VR. The results of the research have proved that most of the hypotheses are valid, and the research has reached a series of conclusions, most notably that there is an important role for continuous improvement in the principle of customer orientation in the NSS/CSS.

INTRODUCTION:

Adopting concept of continuous improvement in organizations is one of the strategies that aim at delivering high quality outputs with unique advantages that enable them to face the obstacles they face, and this is done through continuous development by management. It contributes to improving the interactive relationship between the customer and the management of the organization in a way that enables the organization to head toward its

customers and provide high quality services to them. The expectations and behavior of customers should be taken into account not only in the final stages but also throughout the processes required to provide value-added

products and services, as the orientation toward the customer is a strategic approach that reflects the organization's ability to create and present superior value to customers through processing market information. The definition of customer orientation as referring to the vision and neediest of the organization or the sum of values and beliefs of the organization which places the customer among its priorities.

PART ONE: RESEARCH METHODOLOGY

Research Problem

The problem of research is the nature of the role that continuous improvement plays in the orientation of the organization toward its customers and the nature and size of the relationship and the impact on it.

- **a.** Does the research organization seek to apply elements of continuous improvement?
- **b.** How well do cyber security staff understand the importance of continuous improvement processes?
- **c.** What is the level of customer orientation in the research department and are people in this department aware of the importance of this topic?
- **d.** Is there an impact of continuous improvements in the orientation toward the customer?

Importance Research

- a. The importance of research lies in measuring the nature and type of relationship between continuous improvement and customer orientation.
- b. The scientific significance of this research stems from the fact that research subjects are important subjects that have received the attention of a large number of researchers.
- c. The practical importance of this research is highlighted by the contribution of its results to helping the sample in the application of continuous improvement processes and directing its attention toward adopting the principle of customer orientation in order to develop its potential and build a positive reputation among the customers.

Research Objectives

- a. Identify the level of continuous improvement in the sample cyber security department.
- b. To learn about the quality of security services offered in the research department.

c. Provide a comprehensive picture of current customer orientation trends by identifying which areas need improvements in the cyber security requirements of the research department.

Data And Information Collection Tools

In theoretical aspect of research, relied researcher on Arab and foreign references, including books, studies, letters, scientific literature, publications, periodicals and research related to research, in addition to making use of the international information network (Internet). In the field, researchers have relied on field research to collect eye data by using the survey as the main means of collecting data and information, and as the most consistent means of current research.

Research Hypotheses

In order to complete the research requirements and to answer their questions, the following hypotheses were developed:

a. There is a statistically significant correlation between continuous improvement and customer orientation.

There is a direct statistically significant effect between continuous improvement and customer orientation

Research Community and Sample

The target community consists of all 150 members in the cyber security department of the Iraqi National Security Agency, as the number of questionnaire forms distributed on the research sample reached 150, of which 141 were approved only for analysis and left the rest either not returned or there is a shortage.

Research Outline

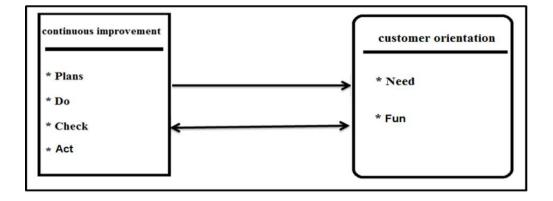


Figure (1) Hypothetical Diagram for Research

PART TWO: THEORETICAL ASPECT

First. Continuous Improvement Concept of Continuous Improvement

Continuous improvement has emerged in Japan in the sense of Kaizen after the Second World War and Kaizen means "continuous improvement," a system used in quality, technology, processes, organizational culture, productivity, safety and leadership. It is derivative of the Japanese words Kai, which means "change" or "Action" and Zen, which means good, and Kaizen at the organization level is directed toward the organizations themselves and extends the personal and social life of the (Ho et al., 2017:219)) refers to continuous (Charantimath, 2017:183). improvement as the philosophy that comprehensive quality management needs to improve every aspect of the process to target "never-ever" perfection but organizations seek to achieve it. Continuous improvement is an integral part of quality improvement and no one can deny its importance at the present There is an urgent demand to generalize a culture of continuous improvement more than ever, ensuring consistent quality and reliability of analytical results, creating high quality products that comply with standard specifications, and also reducing waste in time, personal effort and raw materials (Kolif et al., 2018:1). (Kovach et al., 2011:819) emphasizes that today, regardless of the business area, organizations must focus on speed, efficiency and customer value to be global, and the long-term health of an organization depends on its commitment to continuous improvement.

Dimensions Of Continuous Improvement

We represent the dimensions of continuous improvement, which was unanimously agreed upon by most writers and researchers, as follows:

- **a. Plans**: At this stage, the principle and purpose were defined and a plan developed (Shyng, 2021:208).
- b. **Do:** The purpose of this phase is to implement Action Plan Chakraorty,2016:16)
- 1- Perform optimization.
- 2- Collect and document data.
- 3- Document problems, unexpected observations, lessons learned and knowledge gained.
- c. **Check:** In this phase, the effectiveness of the updated process is checked, and gaps in the updated process are identified (Arias, 2020:4)
- **d.** Act: This is the stage at which the process is improved with the resolution of problems in the specific, recorded process from the (do and check) stages, the investigation of the root causes of problems, if any, and their elimination by modifying the process repeats the test to collect new data and revalidate; Or give up the project and start it last (Silva et al., 2017:325).

Importance Of Continuous Improvement:

The importance of continuous improvement lies in activities aimed at achieving customer satisfaction, improving the organization's operations and

the performance of suppliers, which can be designed and implemented by collective action, (Gunawan, 2018:301). There are many benefits to be gained from continuous improvement, as organizations can increase quality, reduce time limits and reduce errors, which in turn reduce costs and improve quality. This can increase organizations' competitiveness in the market and satisfy customers (Karlsso & Mohammed,2015:6). (Soita, 2016:14) argues that the importance of continuous improvements lies in preventing waste, which includes time and cost waste and underutilization of proper thinking, or other resources, that have been spent in producing a product or service. Through continuous improvement, organizations are improving their operations and programs and enhancing their skills to develop high-quality products and services in a profitable manner in order to achieve competitive advantages, which is why continuous improvement has become one of the most interesting structures for operational and quality management investigation (Ravé et al., 2020:1).

Objectives Of Continuous Improvement

From the point of view (Stelson et al., 2017:43) continuous improvement is the principle of improving a simple process, which is intended to maximize the benefit of the customer by reducing the elements that are harmful to the goals of the service. Actions that increase the benefit of the customer are seen as adding value; Such harmful substances are considered waste. In most CI continuous improvement projects, the goal is to identify and recommend improvements to waste-free processes and create plans to maintain changes that maximize value.

Lizarelli et al., 2021:3)) believed that the overall goal of continuous improvements was to focus on reducing waste and eliminating activities that did not add value to operations.

Today, many continuous improvement practices have been developed on LEAN, six Sigma, and Lean six Sigma and other methodologies such as balanced scorecard based on process concepts or quality improvement. The goal can be to reduce waste, improve quality, and an effective line of production among many other needives, and by using many of the features of continuous improvement CI, it can be used to solve production and process-based problems and also to help organizations grow in the organization world.(Ritamaki,2017:19)

Second: Customer Orientation

Concept Of Customer Orientation

believes (Raie *et al.*, 2014) that there are two dimensions to customer orientation: Needs and enjoyment of the needs associated with employee beliefs about their ability to meet customer needs. The fun dimension is correlationed to the ability of the employees to enjoy interaction and service with the customer's requirements. This two-dimensional vision allows me to suggest this point that the employee's orientation toward the customer is not

only about meeting the customer's needs, but also, I am personally pleased to serve the customer.

Aspects Affecting Customer Orientation:

believe (Farlane *et al.*, 2016:5) there are three main aspects that influence the customer orientation:

- a. Proximity: The readiness of the supply chain to keep in touch and communicate effectively with customers.
- b. Customer flexibility: Awareness and intent of organizations to respond to changing customer expectations.
- c. Accessibility: The readiness of the supply chain to allow customers to access the information necessary to meet their multiple requirements.

Importance of Customer Orientation

explains (Hebles et al., 2020:2) that through Customer Orientation actions, employees are expected to gain valuable resources that lead them to successful customer interactions and communications, and to use all their skills and capabilities to meet customer needs. Furthermore, just as employees feel more engaged in their work and organization, they are expected to make an extra effort to satisfy customers. In the eyes of the customer (Arief et al., 2021:357), it is essential in a competitive environment to improve business performance, as its main focus is on the organization's relationship to the market, which aims at defining customers' desires to achieve sales performance. (Jahankhah & Hermez, 2021:31), the customer orientation is directly focused on marketing activities to meet their needs. customer-focused organizations with a mission of creating value, they generate higher levels of satisfaction, loyalty, innovation, and performance. Customer satisfaction is seen as a direct agent of customer loyalty and will later increase shareholder value.

Objectives Of Customer Orientation

considers (Eiland,2015:12) that the ultimate goal of a Customer Orientation service organization is that there are no defects. This does not mean that everything must be ideal from the moment the customer enters the door to his departure, but rather that the guest comes out completely satisfied with all the services he received while at the organization. (Park & Lee, 2018:77) believes that customer orientation brings high quality value to customers, by showing interest, creating value, making regular assessments of their satisfaction, delivering services, and understanding their needs as the main needive of the organization.

PART THREE: PRACTICAL ASPECT

First: Encoding and Characterization

Easy and reliable analysis of data and accurate results require a set of symbols that facilitate statistical analysis of the data involved, and table (1) illustrates the description, code and dimensions of the research variables

Table (1) Encoding and Characterization of Research Variables

variables		No.	Cod
	Plan	5	PL
Continuous	Do	5	DO
improvement	Check	5	СН
	Act	5	AC
Customer	Fun	6	EN
Orientation	Need	6	NE

Second: General Statistics

Some general statistics have been identified to reveal their characteristics such as the calculation of mean, standard deviation, and variance factor.

Continuous Improvement Variable

The continuous improvement variable is made up of four variables

Table (2) Continuous improvement variable descriptive statistics results

dimension	mean	S.D	%	order of importance
Act	4.3177	0.48407	86	4
Check	4.2255	0.58400	85	3
Do	4.2113	0.64043	84	2
Plan	4.1177	0.83873	82	1
Total	4.2180	0.6368	84.25	

Table 2 shows the results of the descriptive statistic of the continuous improvement variable, which is measured in four dimensions is (**plans**, **do**, **check**, **Act**) where the total mean of this variable was (4.2180), the standard deviation (0.6368), and in relative importance (84.25). These statistical results indicate that an integer variable has been highly significant based on the answers of the research sample, indicating that department management works in the event of a mismatch by Acting anomalies and developing policies.

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Customer	 I vion	tation	Variable
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dimension	mean	S.D	%	order of importance
Need	4.6043	0.34063	92	1
Fun	4.5748	0.36248	91	2
Total	4.5895	0.35155	91.5	

Table 2 shows the results of the descriptive statistic of the Customer Orientation variable, which is measured in two dimensions is (Need, Fun) where the total arithmetic mean of this variable was (4.5895), the standard deviation (0.35155), and the relative significance (91.5). These statistical results indicate that the variable need has been highly significant based on the responses of the research sample, indicating that department management motivates the employee to believe that he has sufficient capacity to meet the needs of his or her customers and at the level they expect.

Third: Test hypotheses

Test Correlation Between Continuous Improvement and Customer Orientation

The researcher used (SPSS V. 20) statistical program. in the process of establishing the values of correlations between the independent variable (continuous improvement) and the dimensions of the dependent variable (cyber security), the results are summarized in the following table:

Table (4) Correlations between the two variables and their dimensions

Continuous improvemen t	Act	Check	Do	Plan	
.316**	.382**	.344**	.255**	.173*	Fun
.295**	.350**	.272**	.240**	.200*	Need
.350**	.421**	.354**	.283**	.214*	Customer Orientation

The zero hypothesis is formulated as follows:

H0: There is no statistically significant correlation between continuous improvement and customer orientation

Vs. the following alternative hypothesis:

H1: There is a statistically significant correlation between continuous improvement and customer orientation

The results in the previous table indicate that the value of the correlation between the continuous improvement and customer orientation variables was This is the first time that the company has been able to offer a new service to the company, and that the company has been able to offer a new service to the company's customers To meet their customers' needs.

Test the impact between continuous improvement and cyber security

Table (5) SEM structural Modeling equation criteria

path			estimate	S.E.	C.R.	P
continuous	>	Customer	.350	.044	4.422	***
improvement	/	Orientation	.550	.011	1.122	

Source: Preparation of researcher based on AMOS VR.24 results

The results indicate a direct moral and direct 5% moral effect of the continuous improvement variable in the customer orientation variable (0.350) at a critical value of 4.422, thus concluding that a 1-unit continuous improvement value leads to a rise in the customer orientation by 0.350.

PART FOUR: CONCLUSIONS & RECOMMENDATIONS

Conclusions

- 1- The results showed a statistically significant correlation between continuous improvement and customer orientation, which contributed to the increased orientation of the department toward its customers, which requires that the department's management be concerned with developing continuous improvement programs and developing its staff in a way that improves the service of its customers.
- 2- The Department's interest in improving and developing its employees' capabilities through training and development courses, which contributed to improving the quality of its services efficiently and effectively.
- 3- Continuous improvements are a key factor in modern and successful organizations, a key factor for excellence and ability and an important resource for creating a competitive advantage for organizations. Continuous improvement therefore has an important role in National Security Service/Cyrillic Security Division.
- 4- The results showed a moral impact of continuous improvement and customer orientation, which contributed to improving the department's ability to deliver higher quality services to its customers.

Recommendations

In the light of the findings of the research, the following recommendations may be made:

- 1. The Department's management must ensure that employees are motivated to develop their capabilities, which requires them to provide appropriate programs, tools and mechanisms to improve their reception and service skills to their customers.
- 2. The Department's management should endeavor to implement continuous improvement in order to ensure the quality of its strength and the ability to meet the needs of its customers.

- 3. The Department's management must provide various programs, information and knowledge for the development of the staff, which requires the development of new methods and methods that encourage the employees to innovate at work and to motivate them to enjoy the service of their customers.
- 4. The Department's management should encourage staff to develop their security and technical ability, which requires the provision of a special database.

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