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Application of PDCA as A Tool for Improving Managerial Performance

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Abstract

This study aims to demonstrate how PDCA may be utilized to improve managerial performance. A management system is defined as a strategic organizational process that is based on a comprehensive set of guidelines and well formulated guiding principles for carrying out organizational activities in order to accomplish organizational goals. The guidelines in this article focus on the key components of properly carrying out organizational operational responsibilities. The PDCA's essential elements are emphasized in the study's conclusion. This paper examines numerous academic sources and using a desk-based research technique with secondary data analysis to show how the use of PDCA as a tool for enhancing managerial performance may be demonstrated. The result has broad ramifications for academia. Global firms may need to take three crucial steps in order to implement PDCA as a technique for enhancing management performance. By demonstrating how to use PDCA as a tool, the findings can assist both academics and practitioners in improving managerial performance. In contrast to other studies on the subject, this one show how to use the PDCA method to increase managerial effectiveness. It explains how to improve managerial performance using the PDCA method.

Keywords: *PDCA, management system, performance measurement, managerial performance, quality management system, performance standard, quality process.*

Introduction

To ensure that a business achieves its objectives, a management system is a function that employs a properly constructed set of processes and procedures (Anderson 2005). A management system is a process that is built on a framework of rules and a well-crafted set of guiding principles, as indicated in the definition, and it is used to carry out organizational actions in order to successfully achieve organizational goals. The PDCA method improves an organization's capacity to lead successfully and achieve its intended goals when used in conjunction with management systems and other crucial tasks. A management system promotes continual process improvement, which is essential for a company's profitability and survival. The PDCA paradigm can be efficiently used to accomplish continuous quality improvement (Dudin et. el 2015). The study deployment has been described as a PDCA cycle in earlier studies (Jelenc, 2020), and recent studies seek to convert PDCA into a learning routine (Soliman, 2016)

Management System Model

Regarding the primary organizational responsibilities, the entire management system must have a distinct vision and a clear direction. Establishing an organization's core goals and guiding ideals—which serve as the foundation for its strategic planning—is equally crucial (Armstrong 1986). It also serves as an input for associated operations in various ways. "Vision" and direction go hand in hand. By adjusting the corporate directions as necessary, an already set goal might be further modified (Olson 2012). The corporate goal's scope may also be significantly increased if necessary to increase its efficiency in accomplishing the intended objectives. Today's sectors already have access to more than 400 management system solutions to help them become business leaders. The core component of management elements, which comprises of the rules for efficient performance management to produce outputs of industrial quality, is the focal point of the majority of management models.

Aim of the Study

The purpose of this paper is to present the application of PDCA as a tool for improving managerial performance.

Methodology

The application of PDCA as a tool for improving managerial performance in this paper has presented through analyzing a variety of scholarly sources and a desk-based research approach with secondary data analysis.

Management System – A Simplistic Model PDCA

Dr. William Edwards Deming, the father of quality control and a management consultant, created a way to determine why some goods or procedures don't work out as expected in the 1950s. His method is presently used as a strategy tool by a wide range of enterprises. It gives



(Figure: PDCA process theme- Plan-Do-Check-Act)

individuals the ability to formulate and test theories about what needs to change in an infinite feedback loop. The abbreviation PDCA refers to a process quality management tool. Its fundamental goal is to develop solutions using the four stages represented by its initials—Plan, Do, Check, and Act. It also encourages continual process improvement because it is cyclical. The PDCA model can be used to summarize the management system as a four-stage process. The management process chain of plan-devise-check-act is mentioned. The repetition is the main element of the tool. For operations involving ongoing improvement, it is executed

gradually. In this case, planning, standardization, and documentation are essential steps and precise actions. The PDCA technique considers the specialization of the specialists engaged. Though theoretically similar to Shewhart's three-step manufacturing under control technique, which entails specification, production, and inspection, Dr. Deming once referred to the PDCA model as the "Shewhart cycle" (Deming, W. E. 1986). The following graphic highlights the PDCA paradigm with an emphasis on the business continuity management methodology (Haller, H.S 1993).

- 1. `Plan`- It entails deciding on goals based on the specifics of one's company, setting those goals, and coming up with a strategy to achieve them.
- 2. `Do`- Construct and implement operational and control strategies, plans, guidelines, and initiatives connected to training while putting the strategic plans into action. Roles and duties, plans, projects, and communication plans are all defined. the distribution of resources, including human, financial, and material ones.
- 3. `Check`- measuring the results; assessing performance; and maintaining the system.
- 4. `Act`- Plans should be improved and corrected, as should how they are carried out. The management system should also be reviewed and improved as needed in light of the "Check" phase.

The PDCA model is typically combined with a process approach model to ensure that the organization identifies business continuity planning processes, decides the order in which they are carried out, provides appropriate resources, establishes appropriate methods needed to operate and control planning efforts, and more (Mary W., Deming W. E. 1986)."Management Process is a Continuous Movement," said W. Edward Deming, "with Measurement as a Key Mechanism; however Decisions should be Rational in Compliance with Information." The "management process" refers to the management's requirement for thorough corporate planning as well as efforts to maintain complete control over its operational processes and effectively perform organizational obligations (Haller, H.S. 1993). This concept includes the notion of continuous process improvement within the organization, based on suitable analysis, the use of modern technology, and effective measuring techniques.

Application of PDCA to Improve Managerial Performance

Although PDCA is a useful tool for businesses, it may also be used by individuals to enhance their own performance:

First, make a plan. Determine the personal obstacles standing in the way of advancement. Identifying the underlying reasons of any problems will help to develop objectives to go through them.

After deciding on a course of action, try out a few alternative approaches safely to achieve the desired results.

Then, Check: Monitor someone's development frequently, modify their conduct as necessary, and take into account the outcomes of their choices.

Finally, take action by putting into practice what is effective, improving what isn't, and continuing the cycle of continuous improvement.

When to Apply PDCA

The PDCA framework can be advantageous for all business models. By dissecting larger processes or development phases into smaller ones and looking for ways to improve each one, it may be used to improve any process or product. Implementing Total Quality Management

or Six Sigma projects as well as enhancing business processes more generally benefit greatly from it. But putting the PDCA cycle into practice can take a lot longer than a basic, "gung ho" approach. Therefore, it might not be the ideal strategy to deal with an urgent issue. Additionally, it offers fewer opportunities and needs a lot of team buy-in.

Key Components of Management Process Model

a) The management process can be successful if the final goal is the proper one or the repercussions are understood. One of the most crucial elements of the entire management process is having a solid awareness of the business areas and company objectives. In other words, if anyone possess the necessary business expertise, then the power to oversee the entire managerial process. The management process of a corporation is the subject of the inquiry of the knowledge and skills present in the process.

b) The management process is designed with several checks and balances. The "Check and Balance" position in an organization offers the opportunity to instantly rectify a problem when necessary or desired, depending on the circumstance. This is possible provided pertinent information is acquired. Benchmarking and consumer expectations both point to the need for a performance evaluation. Because an organization cannot match itself to the needs standards of the market and the time without improvement, improvement and the breadth of improvement are truly the measuring tools to gauge the true success of the management.

Research Implications/Limitations

The conclusion has important ramifications for academics. A few important techniques for adopting PDCA as a tool to improve management effectiveness may be adopted by multinational corporations. The major problem is that despite a thorough literature search, some significant studies may have gone undiscovered. There are also certain time restrictions. By training both academics and practitioners on how to use PDCA as a tool for improving managerial performance, the findings can be of assistance to both groups.

Discussion

According to Anderson, a corporation's management should truly aim for structured planning, constant self-improvement methods, self-evaluation, and the implementation of best management practices (2005). Using these tools and methodologies, the organization can acquire the knowledge required to improve its systems, customer satisfaction, product innovation or design, take advantage of outside opportunities, etc. The self-evaluation process is a crucial first step in guiding a business toward the achievement of business improvement. An organization undertakes self-assessment, which is a systematic, in-depth, technical, and continuing investigation to analyze its operational capabilities and expected outcomes, supported by technical and quantitative models and tools. The goal of the self-assessment procedure is to identify the areas that require improvement. This enables a business to carefully and strategically plan improvement actions that can be carried out until the desired degree of advancement or the achievement of business objectives. To develop the best business plan and achieve corporate success, thorough analysis, research, and identification of business priorities are all necessary (Erica O. 2012). It takes the use of technical, database-based, highly quantitative, and specialized instruments to look into the objectives and generate the most important outcomes for the corporate success of the business. These instruments are also highly helpful in evaluating leadership skills in the business setting (Kazmi, A., Takala, J. 2011). These are also regarded as being necessary to the entire management process. The company's corporate social responsibility activities and initiatives, management relationships, and the organization's in-depth comprehension of and interaction with its clients and target markets are among the other major focal areas (Dobb, F. 2004).

Effective governance is necessary for achieving business success and continuing advancement throughout the company's life cycle. Even if great governance is an ideal level that is extremely challenging to achieve as a whole, a firm can benefit by striving for and ensuring that the

highest level of governance is implemented in a cooperative setting. One simple example is if a team member, group member, or committee member who had a stake in how the matter was resolved purposely chose not to participate in the conversation and made no attempt to sway the result in his favor. To examine the objectives and produce the most crucial results for the overall success of the business, it is necessary to use technical, database-based, highly quantitative, and specialized instruments. These tools are also very beneficial for assessing leadership abilities in a professional setting (Kazmi, A., Takala, J. 2011). These are viewed as essential to the entire management process as well. Building productive teams requires encouraging innovation at work (Kazmi, A., Naaranoja, 2013). It involves promoting unconventional thought. The company must succeed and grow in order to survive (Rother, M. 2010). It will assist the company in adjusting to a future corporate climate that is competitive.

Conclusion

The phrase "management process" refers to the necessity of thorough corporate planning as well as management's attempts to maintain total control over its operational procedures and successfully fulfill organizational duties (Haller, H.S. 1993). This concept includes the idea of continuous process improvement within the business, supported by suitable analysis, the use of modern technology, and effective measurement techniques. Given the growing industrial competitiveness and the global economic slump, it is evident that robust and well-designed management systems are required for the future of high-quality and sustainable firm continuity for any industrial organization. The primary subjects of the study were the PDCA model and associated improvements for the quality element of industrial management.

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