Review Paper

TQM AND KAIZEN FOR CONTINUOUS QUALITY MANAGEMENT

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Abstract. There is almost a generally accepted view that quality is one of the most important factors of company competitiveness. For this reason, quality needs to be managed. In response to the need for management and requirements for high quality, theory and practice have developed several concepts. Total Quality Management (TQM) and Kaizen are two basic concepts directly involved in continuous improvement of product and process quality in the company, aimed at achieving positive transformation in the minds and actions of employees and managers. The focus of this paper is the analysis of the mentioned concepts and their contribution to the program of continuous quality improvement. Hence, the goal set by this paper is to review the basic characteristics of TQM and Kaizen, and, on the basis of a comparative analysis, draw conclusion about the distinction between them in terms of essence and practical application in the field of quality management.

Key words: quality, continuous improvement, concept, Total Quality Management, Kaizen

JEL Classification: M21, M41

INTRODUCTION

The end of the second millennium was characterized by dramatic changes in all spheres of life and work, and omnipresent globalization. Under the pressure of global competition, companies increasingly seek solutions and outputs in continuous improvement of their capacities and performance, in order to preserve and even improve their business and position on the globalized market. Rapid technological advancement, along with global competition, drives managers to produce products and deliver high-quality services at the
lowest average cost (Domanović, 2016a, 474). That is, the key to success for many companies around the world is quality, so 21st century will with good reason be marked by quality and aspiration to establish higher standards. Quality is becoming one of the important aspects of company adaptation to environmental changes, and quality management is one of the most important tasks of company management. That is, improving and mastering quality is set as a priority task of management. One of the basic requirements of quality management is precisely the requirement for continuous improvement. To strive for continuous quality improvement means working to meet the wishes and expectations of customers by improving process capacities, to result in higher quality of products and/or services. Continuous improvement should be a daily task and practice, i.e. an integral part of the company’s business philosophy motivated by competition, a desire to increase the level of quality and profit, and customer satisfaction. Hence, the subject of research in the paper is quality, as an important and key factor of business success, which cannot be viewed as isolated from other forms of improvement, such as maximizing quantitative results, as well as from changing the social and cultural dimension of company operations. Specifically, the subject of the analysis are Total Quality Management (TQM) and Kaizen, as two basic concepts that directly deal with continuous quality improvement of products and processes. The aim of the paper is to point out the importance of complementary application of these concepts, make their comparative analysis, and show their contribution to the program of continuous quality improvement.

Due to the similarity in practical application, it is necessary to point out the specifics of individual concepts. The key hypothesis in this paper is that only the integrated and complementary application of these two concepts will have synergistic effects on the quality of the overall company operations. Testing the starting hypothesis will rely on qualitative methodology, based on the study of relevant domestic and international literature involving theoretical generalization and experience of authors who explored the subject under consideration.

The structure of the paper is conceived in accordance with the defined subject, basic goal, and starting hypothesis. In the first part, the issue of quality management is considered. The second part includes the discussion about continuous quality improvement through Kaizen concept. The third part deals with the practical application of the Kaizen concept. The fourth part deals with the TQM. The effects and analysis of the practical application of TQM are given in part five. The last, sixth part, deals with a comparative analysis of two concepts and points to similarities and differences between them.

1. QUALITY MANAGEMENT – THE IMPERATIVE OF THE MODERN ERA

An important determinant of the competitive advantage of profit-oriented companies in modern market relations is the quality of products and services. Today, in professional literature and business practice, there is almost a general consensus that quality is one of the key strategic variables, which directly affects the level of customer satisfaction. Companies that achieve a high quality of their products can achieve greater profitability thanks to the ability to charge a higher price for higher quality. Quality is becoming a paradigm of competitiveness, bearing in mind the quality of products and services and the quality of business processes, and its realization requires coordination of work of all
employees, from direct executives to top management. Customer criterion becomes dominant when choosing a supplier and it does not represent luxury, as it used to be thought, but economical and adjusted response to the stated needs. It is becoming clear that quality is now more important than ever before. Hence, quality is globally considered to be the most important phenomenon of our age, with the tendency of its further emphasis and importance. Improving the process quality and maintaining an acceptable level of work quality are key success factors for each company.

Quality management, as a multidimensional approach to company management, is the basis for achieving and improving the quality of products as well as business processes. Quality management, as a business management subsystem, includes coordinated activities to guide and manage the organization from a quality point of view. It is a systemic mode of operation that guarantees that all company activities will take place in a planned manner. It implies the definition and implementation of the procedures necessary for the creation of products/services with the desired characteristics. In other words, it means managing the activities and their results. It is oriented towards creating a quality culture, delivering superior value to stakeholders, and creating a lasting competitive advantage in the company. Such an approach includes “increased product functionality, reliability, perseverance, and serviceability” (Domanović, 2016b, 252).

The quality management function, as part of the total quality management function in the company, is achieved through quality planning, operational quality management, quality control, and quality improvement. Quality planning is the first phase of quality management and a function that meets quality goals and tasks. Operational quality management is a function that relates to operational activities and procedures for achieving quality requirements. Internal and external quality system control involves quality assurance. Quality improvement is undertaken throughout the company in order to increase the efficiency and effectiveness of activities and improve the process in order to achieve success for both the company and customers. Establishing a quality system within the business system, through the process of continuous improvement, opens the way to the development of TQM and Kaizen concepts.

2. CONTINUOUS QUALITY IMPROVEMENT THROUGH KAIZEN CONCEPT

Changes for the better are an inevitable and necessary path if the company wants to survive and succeed in conditions of competitive economic environment. Changes can be perceived as gradual or sudden. The key difference between how changes are understood in Japan and in the West lies in Kaizen concept. Kaizen history began in 1950, when Deming - the advocate and creator of Kaizen concept, began his work in Japan, first in Toyota, where the quality control cycle in production was first implemented. Deming’s idea was to encourage managers to find opportunities for small product quality improvements and cost reduction in the production process. Small and continuous improvement, small steps and progress in productivity, quality, and cost reduction soon became apparent and significant. The Japanese named the total changes made and the resulting success Kaizen, with the general term having more meanings: Kaizen philosophy, costing, technique, and concept (Janjić, 2009, 108-110; Domanović, 2016b, 251-252).
**Kaizen** concept is part of a business philosophy in the field of business with a set of relevant components aimed at satisfying customer expectations (Rof, 2011, 151-167). The process of its implementation is simple, based on the sound mind of employees and no-high-cost approaches, providing in turn incremental progress by applying small innovation, payable in the long run (Janjić, Todorović & Jovanović, 2013, 226-230). One component of Kaizen concept is total quality control (see: Masaaki, 1986, 3-8). Applying total quality control (TQC) emphasizes quality in companies as a priority in relation to other goals. TQC emphasizes the role of human resources in producing a high-quality product. Building quality in people means building awareness of the existence of Kaizen, as an opportunity to identify and solve problems in companies. TQC can be defined as a systematic and statistical approach in implementing Kaizen concept and problem solving, which puts perfect quality of products and services in the first place, but also their continuous improvement, which is implemented at the level of the whole company and takes place everywhere in the company, from managers to employees (Janjić, 2009, 170-173).

In addition to the TQM, several other Kaizen concept components positively affect company performance by improving quality, reducing costs, increasing sales volume, and increasing profits. The effects of Kaizen concept in the business process are numerous, and for the addressed issue the impact on the product quality is the most important one. In order to achieve this effect, Kaizen concept should provide a positive impact on the development of cooperation, communication, and mutual harmony between employees, managers, experts, and executives, strengthening of business morale and establishing discipline in the workplace, more productive use of resources, labour, working area, and more economical use of material (Janjić, 2009, 185). Changes occurring through Kaizen are not large in scope, and are usually caused by workers themselves in their workplace (in gemba). Therefore, all workers need to be involved in the process of quality creation. Otherwise, there are defects that cause delays in the delivery of products/parts and require the existence of inventory to replace defective products or parts. Hence, the basis of Kaizen concept is quality in the first place, not profit. Kaizen concept puts emphasis on improving quality through small changes in processes and workplaces, and the result is reflected in reductions in different types of waste, lower operating costs, lower price, increased sales volume, and increased profits.

**3. Application of Kaizen Concept in Practice**

Experience in applying Kaizen concept in developed market-oriented countries should be followed using the Japanese industry example, as well as the one from the US industry (although examples of applications exist in the UK, Sweden, but also in Montenegro, Indonesia etc.). Examples of Kaizen concept application are companies from the automotive industry, aviation industry, electrical industry, with the tendency of spreading the application in the non-productive areas. The practical implementation of Kaizen concept began at Toyota Corporation, while producing Toyota’s best-selling car of the 21st century, Toyota Corolla. Today, there is hardly any bigger company in Japan that does not apply Kaizen concept (for example: Olympus Optical Company, Daihatsu, Canon, Komatsu, Hitachi, etc.). In USA Kaizen has been applied by Ford Motor, Boing, Dana Corporation, in Germany, it is Mercedes, in Great Britain, Dieselco, in Montenegro, Daido, and, more recently also Japan
Tobacco International-Senta in the Republic of Serbia. In recent times, Japan has been supporting the development of *Kaizen* concept in developing countries, with assistance first focusing on East Asian countries, South Asia, Latin America, and Eastern Europe.

When it comes to African underdeveloped countries, knowledge exchange and the use of *Kaizen* are quite limited. Production companies in Africa are not only disadvantaged in terms of technological development, but also regarding lack of knowledge of key management methods. There are several limitations for implementation of *Kaizen* in Africa. First, in countries with socialist elements, such as Ethiopia, company strength is concentrated in the hands of top management, while *Kaizen* concept emphasizes the empowerment of workers in the workplace (in gemba). Second, the most common sources of productivity decline are outside the company, especially the delay in the delivery of materials. Improving the business network, both back and forth, should be an important element of improving productivity for most African manufacturers.

The study conducted in the three pilot companies: Mesfin Industrial Engineering PLC (MIE), Almeda Textile Factory PLC, and Sheba Leather Industry (Admasu, 2015, 4) has shown that 59% of respondents accept *Kaizen* and fully understand it, while 41% accept this concept with a certain amount of uncertainty and confusion. As a result of poor education and training, there is a lag in the implementation of *Kaizen* techniques and tools, especially in the application of 5S technique (Asayehgn et al., 2014, 39-57). Based on this observation, it could be concluded that training on the *Kaizen* application is crucial. In general, two measures should be considered for dissemination of *Kaizen* in African countries. First, *Kaizen* must be announced as a national movement. Second, spreading the idea of *Kaizen* through professional institutions will be vital (Admasu, 2015, 2-3).

The experience of underdeveloped countries, developing countries, and developed countries regarding the application of *Kaizen* concept can be of great importance for companies in the Republic of Serbia. It should be expected that *Kaizen* concept will find its place and role in companies in the Republic of Serbia, primarily because of its simplicity, ease of understanding, and small investment. The prospects for its transition into the business environment of the Republic of Serbia are encouraging, provided companies release their long-standing habits, especially those that see employees only on the basis of their status in the company hierarchy, and not according to their efforts to achieve the business goal. Hence, the experience of other countries can be helpful to companies in the Republic of Serbia in implementing *Kaizen* concept, especially because until recently they have had neither theoretical nor practical experience in its implementation.

4. **Total Quality Management: Essence and Implementation**

Total Quality Management – *TQM* concept is synonymous with business excellence, a new business philosophy that implies access to quality-oriented company management. *TQM* can be described as the most powerful, most demanding, and most complex management approach which evolved in the UK in the 1970s and early 1980s. There are several approaches to *TQM*, such as Juran’s, Deming’s, Ishikawa’s, Crosby’s, all of which having a unique view of the development and application of TQM in the organization. In this paper we will focus on Deming’s approach which is probably the most extensive. The top level of quality can be achieved only through a total quality management model, which shows the
professional and scientific way to achieve business success both in the present and in future, using methods and techniques, improvement, and with the participation of all employees, as well as all stakeholders in the process. 

*TQM* is a management approach in the company that seeks to align customer needs and shareholders’ interests, motivating all employees to achieve that goal (Antić, Novićević, 2012, 201). Companies, in which management plays a leading role in the realization of this concept, produce higher-quality products in comparison with companies in which management is not committed to quality of the organization itself (Saleem, et al., 2012, 35). In its structure, *TQM* is a multiconceptual discipline that includes the concepts of quality and management. It is an answer to traditional approach to quality and a new way of improving the competitive position through a comprehensive view of quality management. Therefore, quality is the basis of the total quality management concept, and the main goal is the company’s ability to satisfy customer needs.

In the present business environment, a large number of companies recognize and see that total quality management is important and useful. It is a method of gradual improvement of the entire organization, using systematic approach based on hard work, discipline, self-discipline, intensive training, application of existing and new techniques and resources. Numerous companies have successfully implemented *TQM* (Woon, 2000), but there are also companies that have never tried to accept it or have given up on its introduction and failed (Mat Naim et. al, 2015). The truth is that companies have problems with implementation. Strict requests for the implementation of *TQM* program have made many companies give up on implementation. Then, companies should consider key factors of implementation, for example: top management’s commitment, teamwork, empowering employees, quality education and training, customer focus, continuous improvement, quality systems and policies, relationship with suppliers, process orientation, customer satisfaction, and business result (Ozden, 2003, 345-350).

A survey conducted in Spain shows how structural, internal, and external factors influence the acceptance of *TQM* concept ideas. The research results have shown that larger companies, the ones that form parts of multinational companies, that export most of their products, produce durable goods, unlike those that produce consumer goods, those with higher competition, greater automation, and mass production, with great technological changes, have a higher degree of adoption of *TQM* concept (Merino-Diaz de Cerio, 2003).

The impact of organizational learning on *TQM* implementation is illustrated by a survey conducted in small and medium-sized enterprises in Malaysia in 2014 and in Australia in 1998. The survey has shown that *TQM* implementation rate is low and slow, and that only a small number of middle and small businesses have reached the stage of development and can effectively deal with *TQM* concept. Problems with *TQM* implementation are related to difficulties in the field of finance, technical equipment, and lack of management experience. The high rate of failure of *TQM* implementation is conditioned by limited organizational learning. The most significant challenge is the lack of human capital. Developing skills and knowledge in companies is crucial for development, which can be achieved through organizational learning (Nurazree & Hilmi, 2014).

In particular, the important role in promoting and encouraging companies to adopt *TQM* belongs to political structures. National quality awards established in many countries stand for recognition of companies that achieved business success through the acceptance of *TQM* practice. Following the establishment of the National Quality Award, Malcolm
According to Christian (1995), the TQM approach includes key business operations such as leadership, planning, information, people, processes, customers, and results. These operations are aligned with core values such as visionary leadership, customer-driven quality, continuous learning, innovation, valuing people and partners, societal responsibility, results orientation, and systems perspective. This aligns with the Singapore Quality Award (SQA) workflow, as depicted in Figure 1.

The presented model provides companies with a schematic presentation of the plan for introducing TQM in a structured way, with clear and defined goals (Pui-Mun, 2002). The model should be structured to provide the company with core values (quality driven by customers), defined in the Singapore Quality Award workflow, by systematically developing access within the PDCA cycle (Plan-Do-Check-Act) (Figure 2). Based on interviews with representatives of award winners, a set of best practices in implementing TQM for each phase of the PDCA cycle was made (Pui-Mun, 2002).

**Fig. 1 SQA criteria**

**Fig. 2 The framework for excellence model**
*Source (Adapted from): Pui-Mun, 2002, 147.*
To apply the excellence model, the company should set goals regarding core values. For example, the core value goal (quality driven by customers) may be to achieve a customer satisfaction rate of 98% over a period of three years. After the established goal, the company enters the “planning” phase. The basis for drawing up the plan should be best practices of quality award winners. For the transition and realization of the “do” phase, the company also starts with experience or best practices. An example can be the selection of one day in a year that will be dedicated to customers, to indicate their importance to the company business. Another initiative is to set up customer satisfaction teams whose role is to continually seek to increase customer satisfaction. The next is a “check” phase, tasked with adopting initiatives to monitor the effectiveness of proposals introduced at the previous stage. For example, a company may choose certain performance measures, also based on best practice, to measure the effectiveness of previous initiatives, such as the number of complaints, the number of rejected products, the number of lost customers, and the like. Finally, after the initiative assessment mechanism is built, the company should focus on the “act” phase. The focus is on continuous improvement based on initiatives, using information obtained based on calculated performance. Experience with quality training, customer management training, and the like can be adopted by companies at this stage. Developing this model for achieving business excellence using the PDCA cycle allows companies to continuously improve their initiatives and programs (Pui-Mun, 2002).

An important aspect of implementation is the selection and application of different quality programs. Quality control circles, just-in-time concept, statistical process control, quality audit, and total productive maintenance are the most common quality programs used during TQM implementation process. It is interesting to note that as many as 81% of companies that have not introduced TQM use quality control circles in Turkey, and in Malaysian companies, quality control circles, 5S, just-in-time and kanban are the most popular quality programs introduced. The most commonly used TQM tools in the introduction process are the Pareto diagram, statistical quality control, causal loop diagram, and process flowcharts. In a study of 140 manufacturing companies in Saudi Arabia, it was concluded that the flowchart, causal loop diagram, affinity diagrams, and checklists are the most commonly used quality management tools (Ozden, 2003, 346-347). An equally important aspect of implementation refers to the effects of TQM application.

5. EFFECTS OF TQM APPLICATION IN PRACTICE

Literature claims and empirical research confirms, that TQM implementation positively reflects on the company performance, especially profitability, and that non-application or inadequate application can lead to high quality costs and inadequate quality levels that directly affect product profitability. The goal of TQM concept, zero-defect production is
TQM and Kaizen for Continuous Quality Management

often emphasized. The relationship between product/service quality and quality costs and company profitability is a basic, elementary assumption of TQM (Sila, 2007). Achieving the basic economic goal, expressed through company profitability, is not easy, especially in conditions of high competition, so quality management has become an important business discipline, and the achievement of overall quality a top strategic issue. A number of studies investigating the correlation between TQM application and the company financial performance show that the increase in quality has a positive effect on the financial performance measurement (York & Miree, 2004, 291–311), increase the retention rate of existing customers and attracting new ones, leading to increase in market share and sales revenue (Anderson & Sohal, 1999). High-quality products and services can lead to increased customer loyalty, higher prices, reduction in post-sales services, and productivity increase (Santos-Vijande & Alvarez-Gonzalez, 2007, 21–41). Ensuring high quality of products and services requires continuous improvement of organizational processes. Hence, TQM strives to form a company that is based on continuous improvement, i.e. the way of life of a company characterized by continuous improvement, positive work environment based on teamwork, system approach, full application of knowledge and experience in process improvement, and inclusion of all employees in the organization and quality management system.

An interesting survey of the presence of TQM in large companies in the Republic of Croatia was conducted during the second half of 2008. The results have shown that, among non-financial performance measures, customer satisfaction and loyalty, quality of products and services, and continuous business improvement are most represented. In terms of quality, the results have shown that all companies apply quality standards and possess appropriate ISO certificates. Also, 67% of respondents apply TQM in their business. Researchers warn that such a high score could be a subjective top management opinion, and other studies have shown that a large number of companies apply ISO standards, but not TQM. Hence, the final conclusion is that more than half of companies applying ISO certificates do not fully apply TQM concept (Vrdoljak, 2010).

What is the correlation between customer satisfaction and TQM application, as well as between customer satisfaction and financial performance, is shown in a survey conducted in Malaysia on a sample of manufacturing companies publicly trading on the Kuala Lumpur stock market. The results show that the high level of TQM implementation improves customer satisfaction, which ultimately increases company’s business success. As factors increasing customer satisfaction, commitment of top management, customer focus, good relationships with suppliers, and the role of human factors in the realization of TQM have been identified. Also, product quality has been identified as a critical factor of customer satisfaction. The results of high quality are increased market share, sales, and profitability, even when increase in quality implies more expensive material and production process. The price of differentiation exceeds increased costs. In addition, the reputation of high-quality products reduces the elasticity of demand. The key conclusion is that one should strive to ensure high-quality products, as well as other exceptional product characteristics and delivery time (Agus, et al., 2000).

During 2003, a survey was conducted at large manufacturing companies in Turkey, with the main goal of determining the current status of TQM application, as well as investigating success factors for the introduction of TQM. Of the 100 companies that made the sample, 62% fully implemented TQM and in 61.4% of study participants TQM introduction was initiated by the top management. The results of TQM introduction are expressed by reduced customer complaints, increased customer satisfaction, improved quality, lower prices, zero-defect
production, and increased market share, increased employee satisfaction, achieving teamwork, and reduced costs. Similar surveys carried out in 127 Malaysian companies show that mainly top management and consultants are in charge of introducing TQM into company practice. The results of the analysis also show that the average time of introducing TQM is between 5 and 7 years, in Malaysian companies 6.33, and in a study conducted in 73 Taiwanese companies, the results indicate that it is between 1 and 5 years. The application of TQM in Turkish companies faced certain difficulties and problems, most often seen in inadequate knowledge of TQM concept, resistance of some employees to its application, and lack of top management support (Ozden, 2003). Knowing potential barriers should be the basis for their easy overcoming.

6. COMPARATIVE ANALYSIS OF KAIZEN AND TQM

Kaizen and TQM concepts are closely related, but not identical. The most important common feature is effort towards continuous improvement in order to achieve the quality of products and processes in the company. They are complementary concepts that share the same philosophy. The most successful companies almost always use them at the same time to maximize benefits. The basis for successful quality improvement in both concepts is the Deming cycle, as a series of related activities – plan, do, check, and act. To reach a better quality that meets customers’ needs, these four stages (steps) should be constantly rotated, whereby quality becomes the main criterion (Janjić, 2009, 209-210). In the revised version of the Deming cycle, the first step (plan) is replaced by standardization. So, the basis for improving quality lies in standards, which, when achieved, are replaced with new, higher standards, relying on improvement. Standardization is one of the most important pillars in implementation of both Kaizen and TQM. Higher quality, which leads to increased customer satisfaction, which further conditions better business performance, is the goal of both TQM and Kaizen. Thus, both concepts focus on continuous quality improvement, with Kaizen focusing on small and gradual improvement, and TQM pointing out that radical improvement is important and crucial for achieving great effects (Saleem, et al., 2012, 36).

These two concepts differ in the way they are implemented. Kaizen focuses on step-by-step improvement, while TQM focuses on simultaneous operations in all processes, i.e. maintenance and improvement take place in parallel (Saleem, et al., 2012, 38). Kaizen means little incremental but continuous improvement, and rests on the idea of “disassembling and reassembling in a better way” in order to improve the process, quality, and performance in a company (Todorović, 2013, 24). There is no discontinuity in TQM process of continuous improvement. Kaizen alternately performs maintenance and improvement processes. Implementation of the maintenance component is done by assigning tasks to all employees based on standard operating procedures. Improvement implies the establishment of higher standards, and when the establishment of a new standard is completed, then a new process of its maintenance begins.

Kaizen puts the human factor at the forefront, i.e. the quality of people, while TQM concept is oriented towards quality of products and services. Western business philosophy insists on enhancing and improving technology, in contrast to Kaizen that can be used in every aspect of business.

While Kaizen is limited to specific projects, TQM is present throughout the organization, in all processes, departments, and organizational units. Thus, Kaizen is applied in the form of
small improvement projects aimed at a specific business aspect, with the intention of quickly discovering the cause of the problem and effectively applying solution with the help of an independent multifunctional team. When seeking suggestions for improvement, Kaizen involves all stakeholders at all organizational levels. TQM improvements are performed in all business aspects, including all company employees, who are responsible for improving the product quality. When it comes to suggestions for improvement, Kaizen concept follows a bottom-up approach. TQM concept follows the bottom-up and top-to-bottom approach, i.e. top management as much as the company’s employees suggest and introduce the need for improvement (Saleem, et al., 2012).

Furthermore, Kaizen focuses on improving the use of available resources, which implies that its implementation does not require large investment or requires almost none. TQM requires investment to improve the quality of products or processes (purchasing a new machine, automation, innovation). What is evident is that TQM achieves continuous improvement through the use of Kaizen and through innovation. It can be concluded that, despite differences in methodology, focus, and range of activities, Kaizen approach is the basis of TQM, focused on the production phase in the value chain and continuous improvement of quality, processes, and performance through small changes in processes and in the workplace, thus reducing various types of waste. TQM focuses on improving quality by adding value, creating a perfect product, improving productivity, and reducing variations in measures and processes (Saleem, et al., 2012).

**Conclusions**

Quality should be understood as one of the key factors of business success, i.e. one of the strategic variables, which directly affects customer satisfaction, and contributes to achieving the company goals. Quality, in modern business conditions, becomes a paradigm of competitiveness, bearing in mind that achieving the quality of products, services, and business processes requires the coordination and engagement of all employees. Quality is not once-for-all given value, and it is necessary to take measures for its continuous improvement. In theory and practice, numerous tools for improving and managing quality have been developed. The subject of this paper have been Total Quality Management and Kaizen. The analysis has shown that these are the concepts that directly enable continuous quality improvement.

Based on the above, it can be concluded that TQM and Kaizen are two concepts with certain similarities and differences, which can form the basis of successful business of a modern company, and have the potential for integrated application, which confirms the underlying hypothesis. The application of TQM and Kaizen implies radical changes in business organization, connecting customers and suppliers, and relationships with customers, and the companies that implement them face certain difficulties. The most common problems arising in the application of TQM are the lack of qualified quality consultants, the conflict of management structures and TQM, expensive and long-lasting application, inadequate knowledge of TQM, employee resistance, and insufficient top management support. The conducted research has shown that these problems are most often expressed in the introduction of TQM in small and medium enterprises. Although Kaizen implementation is much less demanding, it encounters difficulties that are most often seen in the resistance of employees. Employee resistance is often the result of overload, stress, and loss of self-confidence, resulting in a decline in motivation
and rise in dissatisfaction. One of the solutions to overcome these problems and maximize the effects of the application is knowledge. Hence, training and education should include all employees in order to continually improve quality, processes, and effects by joint application of Kaizen and TQM concepts.

Strong competitive pressure forced many companies, both production and service-oriented, to actively accept TQM and Kaizen in order to survive and succeed in their business. Given that TQM and Kaizen have the potential to create a competitive advantage, the number of companies that implement them increases. Experience in the application of TQM and Kaizen concepts in companies around the world, especially in large ones, has shown significant results, expressed primarily through quality improvement, cost reduction, and enhanced financial performance, and can serve as a good practice for application in companies in the Republic of Serbia.

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TQM and Kaizen for Continuous Quality Management


TQM I KAIZEN U FUNKCIJI KONTINUIRANOG UPRAVLJANJA KVALITETOM

Gotovo da postoji opšteprihvaćeni stav da je kvalitet jedan od najvažnijih faktora konkurentnosti preduzeća. Iz tog razloga, kvalitetom je neophodno upravljati. Kao odgovor na potrebu upravljanja i zahteve za visokim kvalitetom u teoriji i praksi razvijeno je više koncepata. Upravljanje ukupnim kvalitetom (Total Quality Management – TQM) i kaizen predstavljaju dva osnovna koncepta koji se direktno bave kontinuiranim poboljšanjem kvaliteta proizvoda i procesa preduzeća kako bi se postigle pozitivne transformacije u razmišljanjima i aktivnostima zaposlenih i menadžmenta. U fokusu ovog rada jeste analiza pomenutih koncepta i njihov doprinos programu kontinuiranog poboljšanja kvaliteta. Onda, cilj postavljen ovim radom jeste razmatranje osnovnih karakteristika TQM i Kaizen koncepta, te na osnovama uporedne analize izvođenje zaključaka o distinkciji između njih u pogledu suštinskog određenja i praktične primene u domenu upravljanja kvalitetom.

Ključne reči: kvalitet, kontinuirano poboljšanje, koncept, upravljanje ukupnim kvalitetom, kaizen.