BG Pulse Journal USA
ISSN:1947-2536 http://www.bgpulseusa.com/index.php/bg
BG PULSE JOURNAL

DEVELOPMENT OF A MODERN ORGANIZATIONAL AND INNOVATIVE MECHANISM FOR PRODUCT QUALITY MANAGEMENT IN TEXTILE ENTERPRISES

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DOI: https://doi.org/10.5281/zenodo.21502673

Abstract: Today, textile enterprises play a crucial role in global economic growth and job creation. However, the inherent complexity and diversity of textile manufacturing present significant challenges in maintaining consistent product quality. Therefore, developing and continuously improving an effective quality management system remains a highly relevant priority for the industry.

This article explores current reforms in Uzbekistan's textile sector, emphasizing the pivotal role of international standards and quality management systems in enhancing industry competitiveness. In particular, it presents a newly developed organizational and innovative quality management mechanism tailored for textile enterprises, integrated with modern standard requirements such as ISO 9001 and Amfori BSCI. The practical efficiency of this system is demonstrated through its implementation at the "Khanteks Group" textile enterprise, highlighting key achievements in process optimization, quality control, and continuous operational improvement.

Keywords: ISO 9001, Amfori BSCI, Khanteks group, textile quality management system, audit schedule, continuous improvement, component unit, quality control and assurance

Introduction

In today's tough competitive environment, one of the important tasks is to introduce the requirements of international standards in the textile industry and its continuous improvement.

Today, textile enterprises operate in all regions of the world, contributing to the creation of new jobs and economic growth. However, the complexity and diversity of textile production creates various problems in quality management. Therefore, the introduction and improvement of the quality management system at textile enterprises is one of the topical issues today.

Although there are many quality management systems, among them only a few of them are implemented specifically for the textile industry, the development and implementation of quality management systems based on the requirements of modern standards for this industry is one of the important tasks.

Methods

The quality management system for textile enterprises is a comprehensive system aimed at ensuring the stable provision of high quality products and services. It includes a process approach to quality assurance and control, covering various aspects such as processes, procedures and documentation[1].

The formation of a quality management system in textile enterprises is crucial for several reasons:

Firstly, it helps to meet the requirements of customers and thereby increase their satisfaction;

Secondly, it improves the efficiency and effectiveness of the enterprise by streamlining processes and reducing waste;

Thirdly, a well-implemented quality management system can improve the overall reputation and market competitiveness of a textile enterprise. In general, it is very important for textile enterprises to implement a system that ensures the production of high quality products and maintaining competitiveness in the industry[2].

To establish a quality management system in textile enterprises, it is necessary to implement various strategies. These strategies primarily include the adoption of international standards such as ISO 9001 and Amfori BSCI and the use of quality control tools such as statistical process management. However, many problems hinder the effective implementation of these strategies. Some of the main challenges include limited resources, resistance to change, and lack of employee engagement. Despite these problems, textile enterprises achieve positive results through the formation of a quality management system. These results include improved product quality, customer satisfaction, improved manufacturing process efficiency and competitive advantage in the market.

Thanks to the above factors that we have developed a modern quality management system for textile enterprises.

The stage of development and implementation of a quality management system at textile enterprises also consists of several stages. It can be said that the formation of a quality management system is important for ensuring the smooth operation of textile enterprises and improving the overall quality of products [3].

In the course of our research, the organizational structure of the quality management system was developed, which can be implemented for textile enterprises (Fig.1).



Fig 1. Organizational structure of the quality management system of textile enterprises

Results

Based on the results of our research at a number of textile enterprises, we can say that it is necessary to develop and implement a quality management system taking into account the characteristics of textile enterprises and the requirements of international standards.

Based on the results of the research, a textile quality management system was developed based on the requirements of a number of modern standards, such as Amfori BSCI and ISO 9001 (Fig.2). The peculiarity of the system is that, along with the standard requirements, the requirements of the current time are taken into account in it.

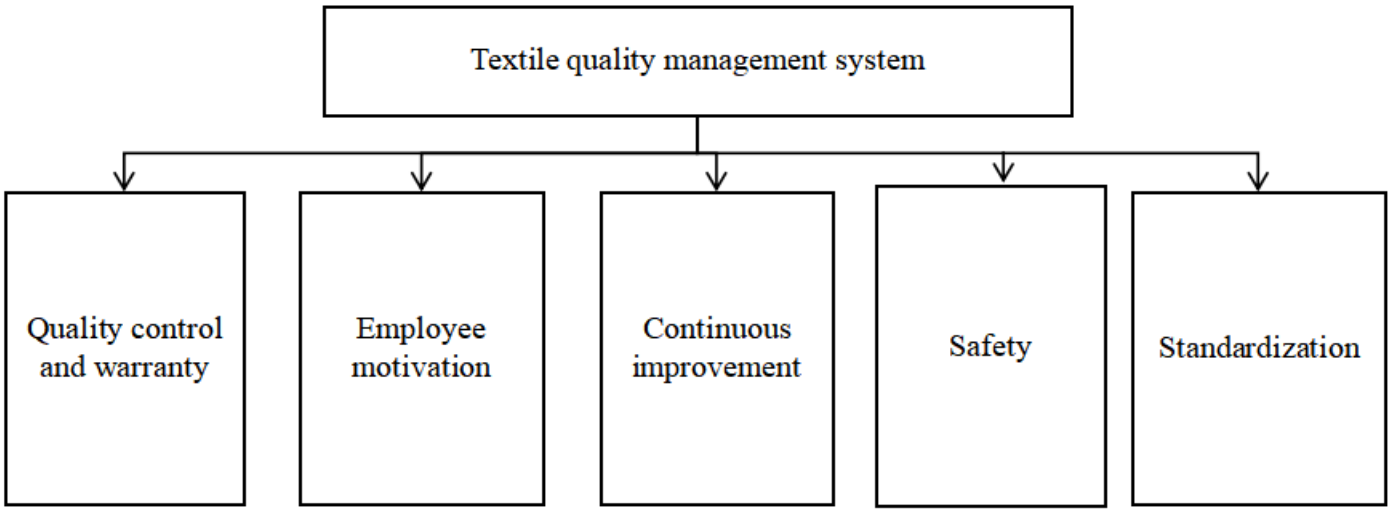


Fig. 2 Textile quality management system

A strategy has been developed for the application of the above system "Textile quality management" at the textile enterprise "Khanteks group" (Fig. 3). On the basis of this strategy, the order of the enterprise was announced and responsible persons were appointed.

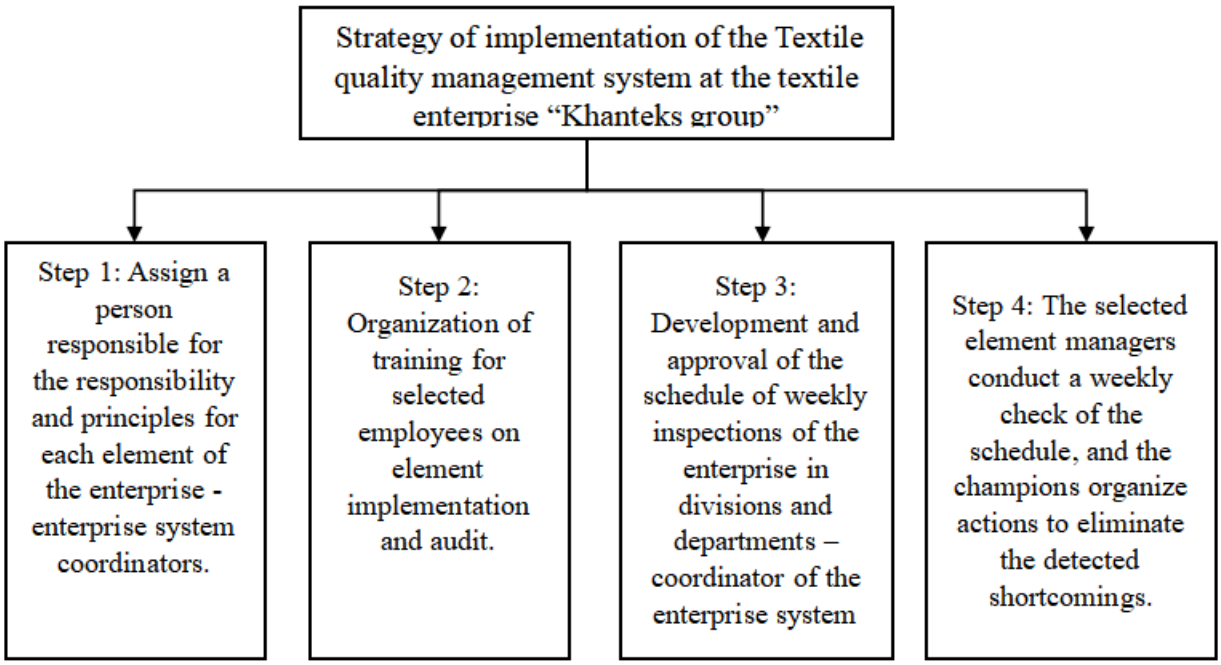


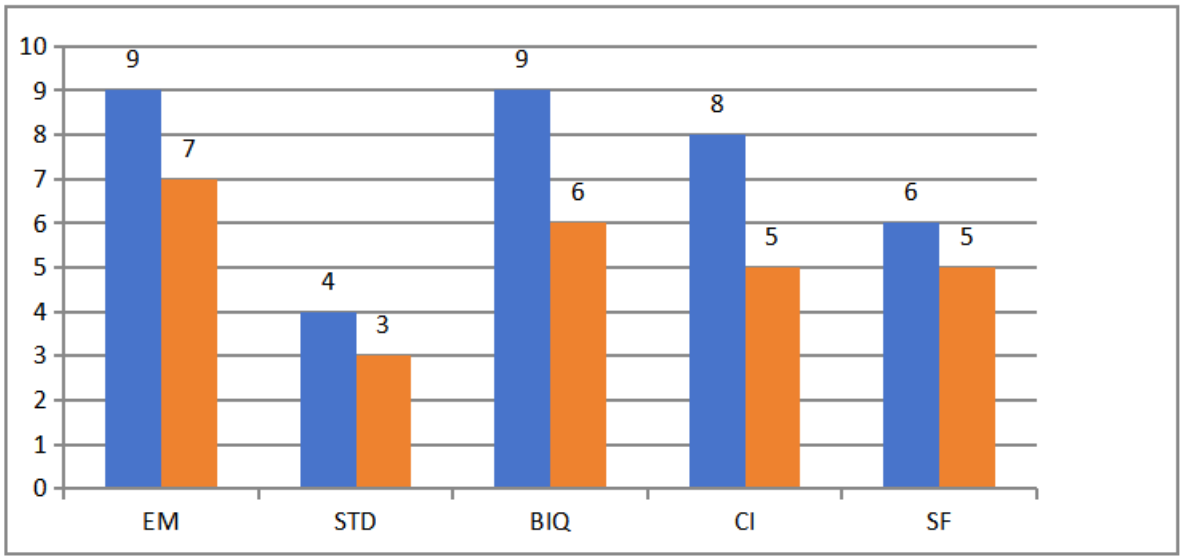
Fig. 3. Strategy of implementation of the textile quality management system

In the course of our research, all the tasks performed at the Khanteks group textile enterprise in 2022 and 2023 were performed in accordance with the "Textile quality management" and the following indicators were achieved.

Table 1

Principles	EM	STD	QC	CI	SF	Total
Number of items	9	4	9	8	6	36
Completed items	7	3	6	5	5	26

Fulfillment of system requirements, %	77%	75%	66%	63%	83%	72%



Discussion

The proposed new system is distinguished by its modernity. The reason is that information technology has been introduced into the continuous improvement system and is characterized by enabling real-time collaboration and communication between employees and other stakeholders.

The Russian scientist A.V. Gubarev, who conducted scientific research on improving quality management systems, showed the importance of using information tools, creating an information and organizational and technical environment [4] for data processing and management in his scientific research.

As can be seen from the table, the "Textile quality management" system was implemented at the textile enterprise "Khanteks group" and the results were obtained, 26 (72%) of the studied 36 elements of the system were completed. Therefore, it will be possible to achieve good results by applying the system in practice.

Conclusion

Thus, the formation and continuous improvement of modern quality systems is of great importance in increasing the competitiveness of textile enterprises and ensuring customer satisfaction. This article discusses various aspects of the Textile quality management system, including its definition, principles and advantages, developed and implemented based on the requirements of international standards. It surpasses traditional paper quality management systems in many ways and will soon allow the textile industry to reach a higher level.

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