



## SYSTEMATIC APPROACH TO THE DIGITALIZATION AND AUDIT MANAGEMENT OF LABOR PROTECTION

**KARIMOV BAHODIR O'KTAM O'G'LI**

*Department of Labor Protection and Technical Safety, Ph.D.*

**JABBOROV OG'ABEK SHOKIR O'G'LI**

*Student of the "Labor Protection and Technical Safety" program*

*Qarshi State Technical University, 180100, 225 Mustaqillik Street, Qarshi,*

*Uzbekistan.*

*Email address: [baxodirkarimov0928@gmail.com](mailto:baxodirkarimov0928@gmail.com)*

**Annotation:** The article discusses the issues of digitalizing labor protection processes and effectively monitoring them through an audit management system. The study analyzes the possibilities of enhancing safety culture in production, monitoring working conditions in real time, and identifying potential risks in advance through the implementation of digital technologies. [1] In addition, the advantages of a systematic approach to labor protection management, as well as the significance of an integrated database and automated audit mechanisms, are highlighted.

**Keywords:** Labor protection, digitalization, audit management, safety system, monitoring, automation, systematic approach, digital transformation.

**Introduction.** In modern industrial enterprises, labor protection issues have become increasingly important strategic importance. The increasing complexity of work processes, the automation of technological equipment, and the significant role of the human factor demand new approaches to ensuring safety. From this perspective, the digitalization of labor protection represents a new stage in safety management, enabling the collection, analysis, and optimization of decision-making processes in real time.



Today, the use of digital audit systems is increasingly enhancing the effectiveness of assessing working conditions, modeling risks, and monitoring compliance with labor protection regulations in production. At the same time, factors such as organizational structure, staff competence, and technical infrastructure play a crucial role in the implementation of these systems.

**Main Body:** At the plant, the “Department of Industrial Safety, Labor Protection, and Environmental Protection” (hereinafter referred to as the “Department”) is a structural unit of the enterprise and is headed by the Department Manager.

This Department is part of the plant’s overall management system and is responsible for organizing and controlling labor protection, industrial safety, and environmental activities in accordance with the required standards. [2]

In the “Department of Industrial Safety, Labor Protection, and Environmental Protection,” identifying the system elements is crucial for establishing systematic management. [5] We consider this Department as a system and explain its elements according to the following table.

**Table 1**

**Table 1. The System of the Department of Industrial Safety, Labor Protection, and Environmental Protection and Its Elements**

Systems	Elements	Functions
Enterprise	Workers, equipment, goods, buildings, etc.	Product manufacturing
Department of Industrial Safety, Labor Protection, and Environmental Protection	Legal and regulatory documents on labor protection, industrial safety, and environmental protection; implementation of comprehensive measures, tools, and control systems	To prevent accidents, disasters, and environmental pollution at the plant while ensuring strict compliance with legal



		and regulatory requirements.
Organization of labor protection	Developing and ensuring compliance with legal and regulatory documents on labor protection, as well as monitoring the implementation of industrial hygiene, safety engineering, and fire safety requirements.	Organizing labor protection within the framework of the law and monitoring its compliance.
Ensuring industrial safety	Industrial safety requirements	Organizing and monitoring industrial safety activities
Organizing environmental protection	Environmental protection in the enterprise	Monitoring compliance with environmental protection and ecological regulations

**1. Leadership and Responsibility.** The plant management is responsible for organizing and developing industrial safety (IS), labor protection (LP), and environmental protection (EP). The General Director is overall responsible for IS, LP, and EP, and delegates the main part of these responsibilities to the Head of the IS, LP, and EP Department.

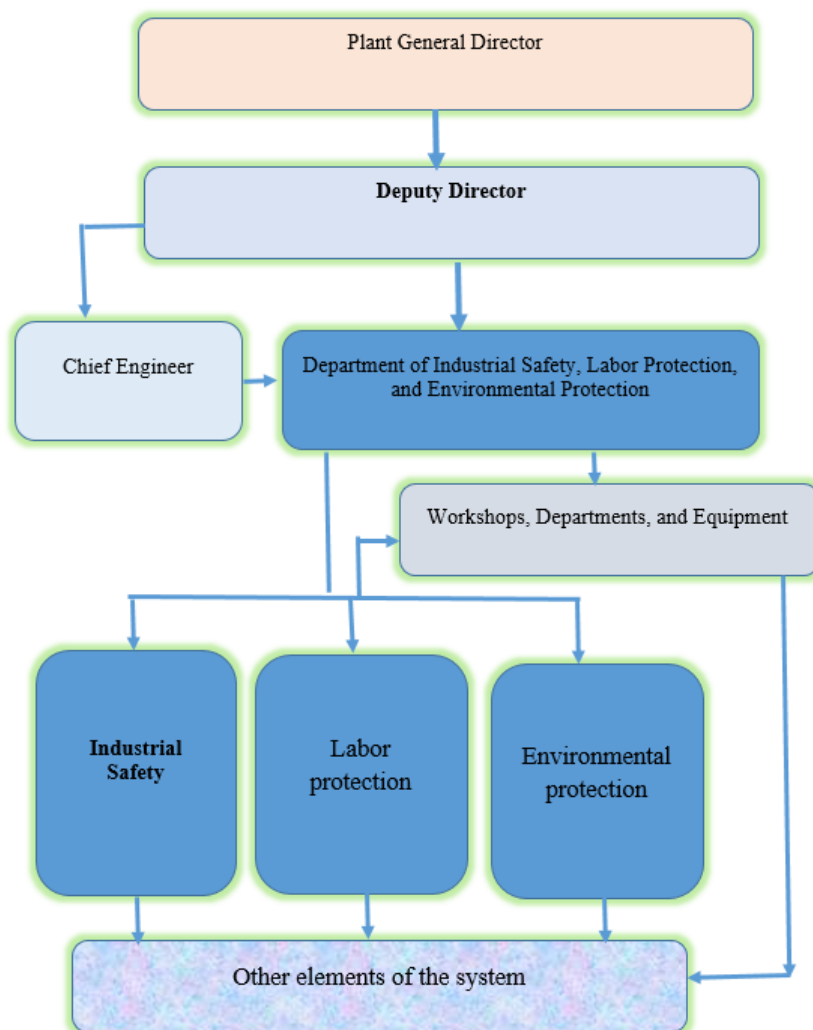
**2. Safety Policy and Objectives** At the plant, the safety policy regarding industrial safety (IS), labor protection (LP), and environmental protection (EP) can be described as follows: [3]

- Preventing and eliminating accidents and occupational diseases in production;
- Preventing disasters in production;
- Preventing negative impacts of production processes on the environment.



In this area, the main responsibilities of the management and the Department are governed by the current labor and labor protection legislation of the Republic of Uzbekistan.

- - Preventing accidents and occupational diseases in production;
- Preventing disasters in production;
- Preventing negative impacts of production processes on the environment.



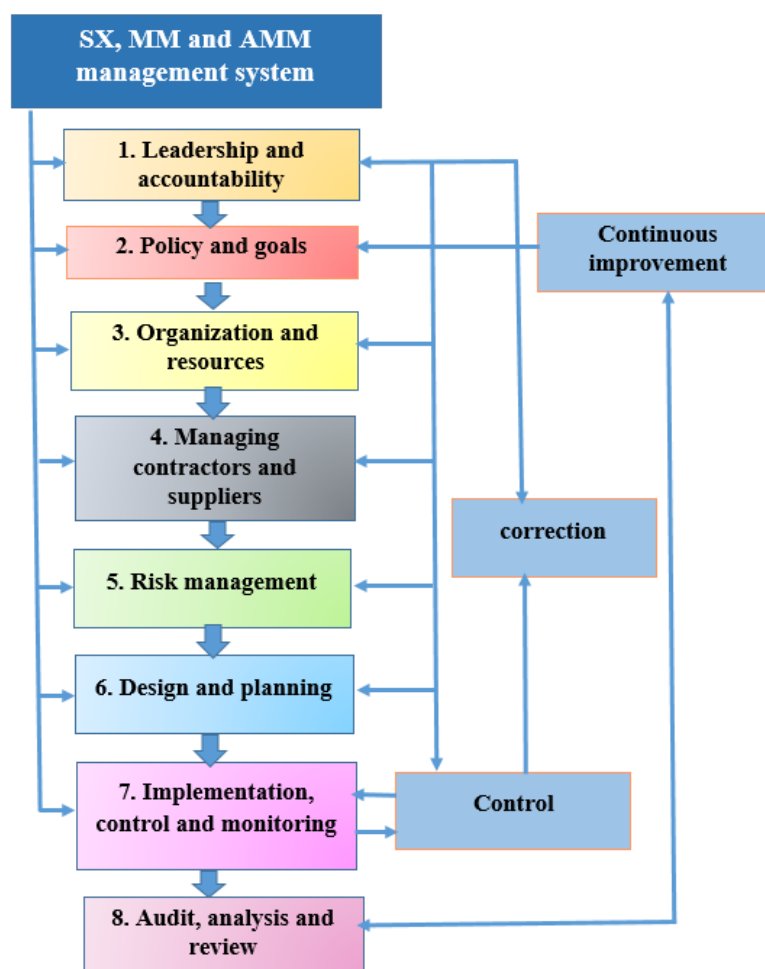
**Figure 1. Management System of the Department of Industrial Safety, Labor Protection, and Environmental Protection at the Plant**

In this area, the main responsibilities of the management and the Department are governed by the current labor and labor protection legislation of the Republic of Uzbekistan.



**Figure 2** presents a schematic of the management system elements of the Department of Industrial Safety, Labor Protection, and Environmental Protection at the plant. By evaluating all elements of the system, labor protection activities are continuously organized and improved in compliance with standards, procedures, and regulations.

It involves implementing the most modern technologies in production based on laws, other legal and regulatory documents, as well as international and corporate standards; modernizing technological equipment; reducing production waste; limiting environmental impact; and creating healthy and safe workplaces to minimize the influence of the work environment on employees' health and life activities.



**Figure 2. Elements of the Management System of Industrial Safety, Labor Protection, and Environmental Protection**



**Conclusion.** Digitalization of labor protection is considered one of the most effective directions for ensuring safety in modern production and management systems. The research results indicate that the implementation of digital technologies enables the automation of labor protection processes, real-time monitoring, and proactive risk forecasting. This reduces human-related errors in production, increases labor productivity, and strengthens the safety culture.

A digital audit management system built on a systematic approach not only improves control mechanisms but also facilitates rapid and accurate decision-making regarding labor safety at the enterprise level. The integration of databases, along with the use of artificial intelligence and analytical platforms, lays the foundation for a new qualitative level of labor protection.

### References

1. O‘zbekiston Respublikasining Mehnatni muhofaza qilish to‘g‘risidagi qonuni. 2016 yil 22 sentabr, O‘RQ-410-son.

URL: <https://lex.uz/docs/3031427>

2. O‘zbekiston Respublikasining Mehnat kodeksi. 2022 yil 28 oktabr, O‘RQ-798-son. URL: <https://lex.uz/docs/6257345>

3. Muradov S., Siddiqova M., Karimov B. Conditions and environment through the Kaizen method //Modern Science and Research. – 2024. – T. 3. – №. 5. – C. 794-808.

4. Karimov B. qizi Nishonova SC MEHNATNI MUHOFAZA QILISHNING MAQSAD VA VAZIFALARI //Educational Research in Universal Sciences. – 2023. – T. 2. – №. 16. – C. 482-486.

5. TEXNIKA K. B. M. M. V. A. XAVFSIZLIGI” TA” LIM YO „NALISHINING FAOLIYAT OB“ EKTLARI VA ISH SOHALARI TO „G „RISIDA TUSHUNCHA //Educational Research in Universal Sciences. – 2023. – T. 2. – №. 16. – C. 487-489.



6. Bahodir O'ktam o'g K. et al. ELEMENTS OF THE MANAGEMENT SYSTEM OF INDUSTRIAL SAFETY, LABOR PROTECTION AND ENVIRONMENTAL PROTECTION AT THE" UZBEKISTAN GTL" PLANT //International journal of advanced research in education, technology and management. – 2023. – Т. 2. – №. 11.

7. Muradov S. H. o'g'li, & Zayniyev, UU o'g'li.(2023). Principles of passing and documenting instructions on safety techniques //Educational Research in Universal Sciences. – Т. 2. – №. 14. – С. 116-119.

8. Sirojiddin M., Umurzoq E. Innovative solutions for improvement of working conditions and environment through the kaizen method. – 2023.