



## **The relevance and role of teaching the subject "Occupational safety and health" in the undergraduate education system**

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**ABSTRACT:** This article emphasizes the role and importance of man as one of the key factors in the field of production and ensuring its safety is one of the most important issues today.

As a result of the analysis of accidents at industrial enterprises, it was noted that the knowledge of specialists and employees involved in production is insufficient in the field of labor protection and safety, and to prevent such cases, it is necessary to further improve the teaching of this knowledge mentioned in higher education.

**KEYWORDS:** *Human, labor protection and technical safety, Dangerous and safe, accident.*

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### **Introduction**

Given that the main driving force of society and the driving force of the production system is "man", one of the most important tasks on the path of modern social development is to protect the health and safety of production in its production activities. This task, in turn, along with the production of industrial enterprises, is aimed at improving working conditions, eliminating sources of injuries and occupational diseases, ensuring good working conditions, lack of fatigue, fatigue, illness, poor hygiene, sanitation, hygiene. increasing the role of labor, ensuring safety in the implementation of processes, the use of safe, effective technological methods and the implementation of measures.

Industrial enterprises produce products, products, tools, substances, devices, etc., necessary for the economy in various sectors, with the help of "HUMAN" labor. For this purpose, various types of hazardous, non-hazardous substances, raw materials are used and the established technological processes are carried out. Safe implementation of technological processes requires the use of modern measures, scientific research to ensure safety in these areas, the use of safe methods in production and training of specialists.

On the basis of these measures is the development of modern scientific and technical, the introduction of new high-efficiency and safe techniques and technologies, the training of highly qualified personnel in all areas in the application of advanced methods of labor safety.

Therefore, in the training of qualified personnel in the field of economics for industrial enterprises in the field of specialization, social and legal, economic, natural, technical disciplines, special attention should be paid to the subject of "**Occupational Health and Safety**".

This is because the purpose of the subject "**Occupational Health and Safety**" is to provide training for young professionals on issues related to the safety of technological processes in industrial enterprises, measures to address existing problems, including the protection of human rights and safety. The task of the subject "**Occupational Health and Safety**" is to carry out safe processes of modern development and industrial development, protection of human labor, life, creation of a healthy and safe environment in production, organization of safety, technical and security measures. training of future staff.

### **Theoretical background**

As you know, in 1999, the subject of "**Occupational Safety**", which was once taught in the curriculum of all universities, was replaced by the subject of "Safety of Life". At the same time, the topics in the curriculum were enriched with topics on civil defense and emergency situations. This was based on the order of the Ministry of Higher and Secondary Special Education of the Republic of Uzbekistan No. 318 of October 28, 2008. It should be noted that in paragraph 1.2 of the order, the subject "**Safety of life**" is based on the scientific methodology, and the curriculum includes the following four sections:

- *theoretical foundations of life safety;*
- *protection of civilians;*
- *fire safety;*
- *first aid.*

Of course, in this case, the subject of "Safety of life activities" was replaced by the number of hours allocated for labor protection, without increasing the number of hours. In return, the knowledge of the staff preparing for the bachelor's degree in occupational safety has diminished. The situation has reached such a level that today the subject of "Safety of Life" has been completely removed from the bachelor's degree of some universities and replaced by other disciplines. Today, according to the new curriculum, the subject of "Life Safety" has been removed from all bachelor's degrees in pedagogy, finance, economics, art, culture, music, as well as in all bachelor's degrees of the National University of Uzbekistan. However, in the near future, graduates of these universities will not have any knowledge of occupational safety and health when working in the field of economics.

### **Main part**

In October 2018, at the initiative of the Department of "Safety of Life" at the Tashkent State Technical University and the Department of Occupational Safety of the Almalyk Mining and Metallurgical Plant, 23 large industrial enterprises operating in the Republic of Uzbekistan were involved in occupational safety and health. . The main purpose of the meeting was to exchange views on whether the level of knowledge on occupational safety in the development of specialists trained in higher education meets the requirements. The meeting was held actively, many questions were asked to both sides and answers were received. At the end of the meeting, a conclusion was prepared, taking into account the requirements and wishes of manufacturing companies. In conclusion, it is necessary to include the subject of "Occupational Safety and Health" in the curriculum of bachelor's degree programs in higher education in the 7th or 8th semesters, in addition to the subject of "Life Safety". It was stated that all graduate students should have in-depth knowledge in the field of occupational safety and health, so as not to face inconveniences in the manufacturing industry in their field. The minutes of the seminar were submitted to the Ministry of Higher Education together with the minutes of the meeting. However, the conclusion based on the minutes of the meeting was not answered.

Today, more than 13,000 enterprises of the country use more than 158,000 hazardous production facilities, and more than 700,000 workers and employees work at the facilities of the fuel and energy complex alone.

According to preliminary estimates, the total cost of business entities operating in hazardous production facilities of the Republic is 7 million soums. There are more than a dozen employees. Therefore, taking into account the rapid development of machinery and technology, it is necessary to increase the knowledge and skills of all specialists working in the field of industrial, radiation and nuclear safety, subsoil safety. This is due to the fact that as a result of the work of specialists and employees who do not have enough knowledge, there are accidents, injuries and deaths due to gross violations of safety rules, technical failures and man-made hazards.

## **Discussions**

According to recent reports, a total of 18 accidents occurred at enterprises and organizations under the control of the State Inspectorate for Industrial Safety, three of which were fatal. (In the reporting period of 2020, a total of 14 accidents occurred, of which 4 were fatal accidents).

The State Committee has sent 16 such documents to law enforcement agencies.

There were a total of 16 (8), 2 (3) deaths, 12 (2) deaths, 12 (2) accidents related to production at the enterprises of the Secretariat of the Cabinet of Ministers of the Republic of Uzbekistan on issues of development of fuel and energy and basic industries. accidents:

including 4 accidents at the Navoi Mining and Metallurgical Combine, including 1 minor, 2 serious injuries and 1 fatal accident. (A total of 3 in the reporting period 2020).

In JSC "Almalyk Mining and Metallurgical Combine" - a total of 4 accidents, of which 1 was a minor, 3 - a serious accident. (There were no accidents in the first quarter of 2020).

In JSC "Uzbekneftegaz" - a total of 4, of which 4 are heavy (in the reporting period 2020 - a total of 2).

In JSC "Uzbekcoal" - a total of 2 accidents, including 1 serious and 1 fatal accident. (Total 3 in the reporting period 2020).

In the State Committee for Geology and Mineral Resources of the Republic of Uzbekistan - 1 total accident, 1 of which was serious (in the first quarter of 2020 there were no accidents).

In JSC "Uzmetkombinat" - a total of 1 accident, of which 1 was serious (in the first quarter of 2020 there were no accidents).

In addition, in other controlled enterprises:

A total of 2 (6) accidents were committed in private enterprises, of which 1 (4) was serious and 1 (2) was fatal.

In the first quarter of 2021, 1 accident occurred and the material damage caused by the accident at the farm "HOLMAT OTA" amounted to 67.4 million soums.

Analysis of accidents shows that one of the main reasons for accidents is the low level of education and organizational reasons, which is 68.82%, and technical reasons - 31.18%.

The main organizational reasons for the accident were: poor organization of work in production and low level of knowledge in the field of industrial safety, low production discipline in the technical and technological processes, as well as carelessness or carelessness of the executor.

The analysis shows that the majority of fatal accidents are caused by the arbitrariness of uneducated employees, poor organization of work by officials, negligence on the part of workers due to carelessness, and lack of safety.

Frequent change of management in enterprises and organizations in recent years, and the fact that the appointed managers and specialists do not have enough knowledge and are not ready or indifferent to the management of industrial safety, technical safety and labor protection. This is leading to an increase in accidents.

## **Conclusion**

At the same time, high-risk equipment and mechanisms do not have measuring instruments to prevent and prevent explosions, their routine adjustment and repair are not carried out in a timely manner, and the use of unsafe facilities by unqualified professionals and workers. Of course, there are many things to say and examples about this. However, while preserving your precious time, I would like to emphasize

once again the importance, urgency and place of the subject "Occupational Health and Safety" and make it a responsible part of the curriculum of all bachelor's degrees of a technical nature.

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