

PROBLEMS OF FIRE SAFETY IN UKRAINE

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Abstract. Ensuring fire safety is one of the important areas of protection of life and health of people, national wealth, and the environment. Despite significant progress in the scientific and technical sphere, humanity has not yet been lucky enough to find reliable means of ensuring fire safety.

Keywords: fire safety, direct losses, collateral damages, causes of fires, violation.

Анотація. Забезпечення пожежної безпеки є одним із важливих напрямків охорони життя і здоров'я людей, національного багатства, навколишнього середовища. Незважаючи на значний прогрес у науково-технічній сфері, людству ще не пощастило знайти надійні засоби забезпечення пожежної безпеки.

Ключові слова: пожежна безпека, прямі збитки, побічні збитки, причини виникнення пожеж, порушення.

Introduction. Fire safety at an enterprise in Ukraine is an integral part of the organization of the workspace and processes by the norms of current legislation. In particular, this area is regulated by the Rules of Fire Safety in Ukraine, approved by order of the Ministry of Internal Affairs of Ukraine, with changes made periodically by relevant orders.

Analysis of the state of the issue. The requirements of fire safety recorded at the legislative level are required to be fulfilled – regardless of the affiliation and size of the authorized capital, turnover, several employees, form of ownership, EZ codes, the scope of work, and other aspects – any subjects conducting their economic activities on Ukrainian territory.

The purpose of the work: to keep abreast of these changes and adjust the organizational work in this sector at factories and companies, it is necessary to regularly monitor the regulatory framework and undergo appropriate training to update not only the theoretical base but also the practical skills of employees.

Pre-war statistics show that when the population increases by 1%, the number of fires increases by approximately 5% and the damage from them increases by 10%. During one day, 120-140 fires occur in Ukraine, in which 6-7 people die, 3-4 people are injured; 32-36 buildings and 4-5 pieces of equipment are destroyed by fire.

Methods, materials and research results. Damage from fires is often divided into direct and indirect.

Direct losses are losses associated with the destruction or damage by fire, water, or smoke and due to the high temperature of fixed assets and other property of enterprises (institutions), as well as citizens, if these losses have a direct causal connection with the fire.

Collateral damages are losses related to the elimination of the fire, as well as caused by production downtime, interruption of work, changes in the traffic schedule of vehicles, and other benefits lost as a result of the fire. As a rule, collateral damage

exceeds direct damage by 3-4 times (Fig. 1).

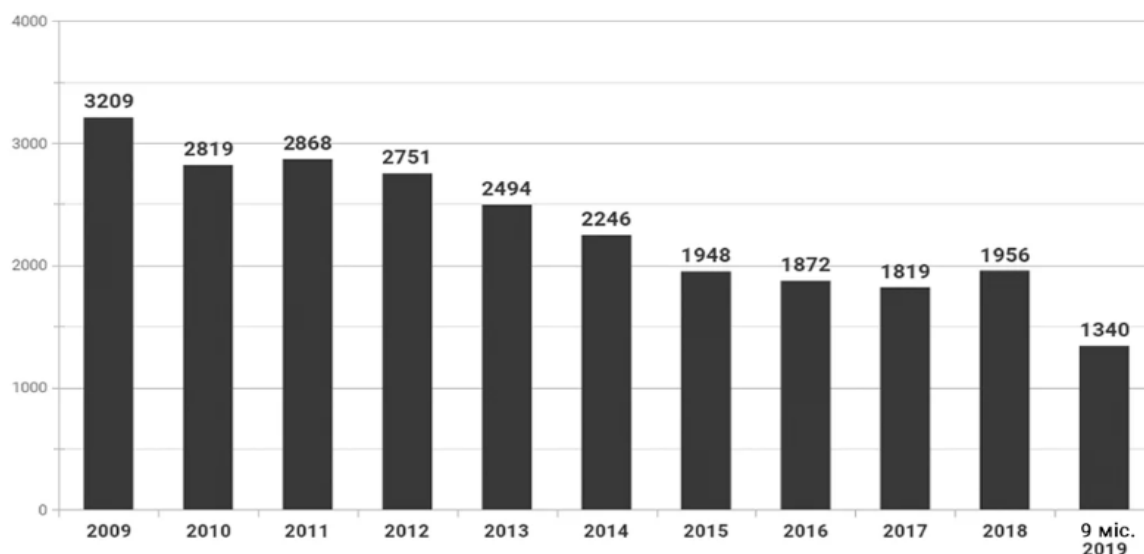


Fig. 1. The number of people who died in fires in Ukraine for the period from 2009 to 2019

Since the beginning of the fire hazard period of 2022, fires on more than 5 thousand hectares of agricultural land have been extinguished in the state and more than 1.5 thousand hectares of grain crops have been saved. Anatolii Shkarbuta, Deputy Head of the Preventive Work Department of the Fire Safety Department of the Emergency Situations Prevention Department of the State Emergency Service, informed about this during the briefing.

He added that the largest number of fires occurred in the Donetsk region – 101, and in the Mykolaiv region – 33 fires. And also in the Dnipro, Zaporizhia, and Kherson regions, because these are near-front zones.

For the successful implementation of effective preventive measures, it is important to know the main causes of fires.

Of the reasons given in the infographic, careless handling of fire most often leads to fire. In the industrial sector, because of this, fires often occur when smoking in unauthorized places and during the performance of fireworks.

Fire safety requirements at the enterprise must be strictly observed by every employee, while the organizational component is entrusted to the officials according to the relevant decision of the management and prescribed in the job instructions and regulations for structural subdivisions.

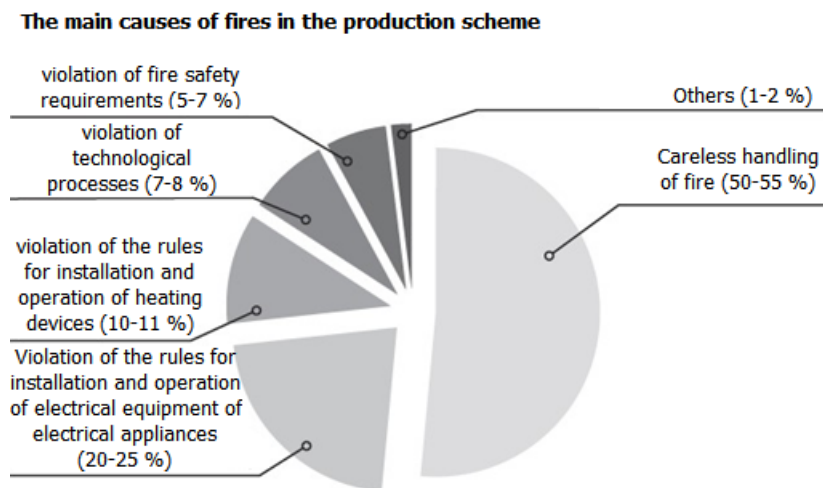


Fig. 2. The main causes of fires in the production scheme

It is not for nothing that it is believed that the rules of fire safety and labor protection are written in blood. Unfortunately, statistics of the State Emergency Service show that neglect or insufficient control over the implementation of these rules leads to tragedies. It is possible not to add to the sad statistics of fires only if the fire regulations are strictly followed. And, accordingly, holding regular events for the staff.

Conclusions. Comprehensive fire safety training includes:

- lessons from the theoretical part with the study of the specifics of regulations on the organization of integral work to ensure, support, and control fire safety at the enterprise, as well as requirements for documentation;
- practical seminars and training on fire safety will help to practice useful skills regarding actions in critical situations and consolidate them;
- knowledge control (testing, exams) with the issuance of documents confirming the completion of training;
- providing students with up-to-date regulatory, technical, and methodical materials;
- consultative support in matters of documentary support.

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