

Bakhriddinov Nuriddin Sadriddinovich

*Dotsent of Namangan Institute of Engineering and Construction
I. Karimov street, Namangan district, 160103, Republic of Uzbekistan*

Akhunov Daniyar Bakhtiyarovich

*Dotsent of Namangan Institute of Engineering and Construction 12,
I. Karimov street, Namangan district, 160103, Republic of Uzbekistan*

Abstract: *Nowadays, in the period of industrial development, production processes in industrial enterprises are different, depending on the type of raw materials or products, harmful factors such as dust, smoke, and gas occur. When measures are taken against them because they have a negative effect on the human body, their types, ways of affecting the human body, ways to avoid them, appropriate protective equipment, and organization of training to increase the knowledge of workers in this regard, most importantly, methods of developing the culture of workers' life safety stated.*

Key words: *dust, harmful factors, production, human organism, disease types, harmful gas, dispersion level, protective equipment, training, toxic dust, lung disease, silicosis, asbestosis, anthracosis, control, certification.*

Creating comfortable working conditions for workers in production enterprises is one of the important issues nowadays. For this, the harmful factors present in the workplaces of production enterprises are checked. Since dust, which is considered as a harmful factor, is present in almost all production enterprises, it is important to check it and determine measures against it.

Dusts are mainly divided into natural and industrial dusts. The suspension of this dust in the air mainly depends on their degree of fineness - the degree of dispersibility, the greater the degree, the smaller the size of the dust and the more it travels in suspension.

Dust particles larger than 200 μm settle quickly. Dust particles between 200 μm and 0.1 μm settle slowly due to air resistance. Dust particles smaller than 0.1 μm , which are invisible to the eye, hardly settle and move irregularly in the air. Such dust penetrates deeper into the body. Depending on the types of production enterprises, the amount of dust varies. For example, construction industry enterprises 70-80% of dust particles up to 5 μm in size were found in the air of exhaust rooms.

As the degree of dust dispersion increases, its chemical activity increases. The solubility of dusts is of great importance in their impact on humans. If the dust is not toxic, their solubility in cell fluids is acceptable. The good solubility of toxic dust in cell fluids is considered harmful, even dangerous. This is because the toxic substance enters the blood and spreads throughout the human body.

Dust mainly affects the respiratory tract, lungs, eyes, and skin. All dust particles with a size of 5 μm and larger are trapped in the upper respiratory tract, primarily in the nasal cavity. As a result, the mucous membrane is damaged and inflamed, the level of cleaning (filtration) of the nasal cavity decreases.

Dust particles smaller than 5 μm penetrate into the lungs. They can cause a serious disease such as pneumoconiosis (lung disease) as a result of their long stay in the lungs. These diseases depend on the types of dust as follows:

- silicosis, silicosis - arises from dust containing silicon Si;
- asbestosis - occurs from asbestos dust;
- anthracosis - caused by coal dust;
- siderosis - caused by iron dust;
- Allergosis – caused by exposure to organic dust, etc. Taking into account the origin of these diseases, it is necessary to use dust protection equipment when working in dusty conditions.

When there are various harmful gases in the production air, in cases where it is impossible to clean them with ventilation methods, gas masks (gas masks), respirators and gauze masks are used. In general, protective equipment is interstate GOST 12.0.002-2003 - "Labor safety. Maintaining the health and working capacity of employees during the work process. It must be based on the requirements of "Maintenance of security". For example, in the case of work with dust of less than 2 μm , a respirator, if it is larger than that, up to 10 μm , from a respirator, and in dusty places with a size greater than that, gauze it is possible to use a gauze mask made of seven layers, after the outer four layers of cotton fluff.

Factors affecting the human body, i.e. through the skin, include various chemicals, gases absorbed through the body, liquids, and alkalis and acids. Tests show that dusts that dissolve in the body can dissolve due to the moisture of the skin upon contact with the skin and enter the body through the skin. Taking into account this feature, it is recommended to work in such dusty conditions to wear special work clothes that protect the skin.

The presence of substances with alkaline and acid properties in the production requires care for the skin of the workers. Such substances can splash on the skin or even injure the skin due to carelessness of the worker. Such production enterprises can include chemical production, mineral fertilizer production enterprises. In this case, when we see the technology of obtaining phosphoric acids in the process of sulfuric acid extraction based on phosphorites, obtaining concentrated phosphoric acids by evaporating these acids, and obtaining concentrated liquid or granular fertilizers based on this, the release of fluorine gases into the air, and when all technological processes are checked, we can see acidic and alkaline environments. When working with such substances, it is recommended to use rubber gloves, mask or semi-mask glasses with transparent glass, overalls with a helmet made of protective canvas (GOST 15449 - 69 and GOST 6811 - 69), rubber boots.

Harmful factors affecting the stomach through the intestines are explained by harmful and toxic substances that can be mixed with the food products consumed. Therefore, it is recommended to be careful when working with such substances. It is not allowed to eat or store food products in such workplaces. It is mainly required to have detergents. Especially when working with cyan and chromium compounds, it is necessary to wear rubber gloves and wash hands with soap after work. Such cases should not be forgotten when working with lead compounds.

A. Mark, Certified Safety Specialist, professor of safety and chair of the Department of Applied Aviation Sciences at Embry-Riddle Aeronautical University in

Daytona Beach, Florida, recommends that workers in any dusty work environment must wear protective equipment during their career to prevent injury or even poisoning. justified the possibility of prevention.

There are the following ways to reduce dust damage:

- explaining safety rules to workers;
- supervising the workplaces;
- timely certification of workplaces.

In addition, it is necessary to form a culture of labor protection in the minds of employees. For this purpose, it is necessary to prepare manuals containing topics such as the effects of popular harmful and dangerous factors on the human body, measures to avoid them, and methods of reducing harmful factors, and to carry out training activities among the public. This has twofold significance. First, adults learn to follow safety rules, and secondly, children learn. Children's learning in particular will be of great importance in the future. Because when they grow up and work in enterprises or organizations, the instruction given by engineers becomes a repetitive concept for them and they tend to follow it.

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