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«Promising ways of information technology  
development»

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# **PROMISING WAYS OF INFORMATION TECHNOLOGY DEVELOPMENT**

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## **A SCIENTIFICALLY BASED COMPLEX OF FUMIGATION SAFETY, PROVISION AND MEDICAL ASSISTANCE IN CASE OF FUMIGATION POISONING**

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Fumigation - decontamination, which is carried out by treatment with a chemical substance in a gaseous state, which completely or mainly affects the cargo, is carried out by specialists with the appropriate specialization - fumigators. Fumigated cargo includes cargoes that, in order to preserve their commercial quality, are decontaminated directly in holds, containers, elevators, or warehouses with toxic poison chemicals (phosphine, bromomethyl, etc.), which can cause poisoning among sailors, dockers, or other contingents working with fumigated cargoes. The fumigation of grain during its sea transportation has a special specificity due to the use of extremely toxic poisons for humans, in the event of a gas leak from a leaky hold, the crew is exposed to a significant risk of the death of sailors.

A scientifically based fumigation safety complex should include the following sections:

- principles of pest control;
- principles of fumigation
- definition of fumigant and dosage and concentration;
- comparative toxicity of different fumigants;
- methods of detection and analysis of poisonous substances, tools used for health safety;
- occupational safety equipment and protective devices;
- general preventive measures when working with fumigants;
- threshold limit values of dangerous substances, acute and chronic toxicosis, pathophysiological changes that occur in the human body when in contact with fumigants, symptoms of poisoning;
- first aid measures and treatment in case of ingress of fumigants through various organs and tissues.

Depending on the level of responsibility of employees involved in fumigation processes, the following division of duties is possible:

I. The level of organization of work of fumigators.

1. Instructive and methodical materials on labor protection and aspects of medical supervision of hazardous work with fumigants (transportation, preparation,

application, etc.) for doctors of medical and sanitary units and secondary medical staff of enterprises carrying out fumigation. In the absence of medical personnel at the enterprise/ship - for doctors or mid-level medical workers of companies with which contracts for medical care of employees have been signed.

2. Instructional materials regarding the medical component of training/self-training for working with fumigants.

3. Visual materials (memoirs/brochures/posters) on life safety when working with fumigants and providing first aid in case of acute poisoning.

4. Training of employees involved in the fumigation process on the specified issues.

5. In-depth training of instructors among employees working with fumigants for ongoing instruction/supervision of colleagues regarding the medical component of fumigant work.

**II. Level of primary/emergency medical care:**

1. Instructive and methodical materials on providing emergency medical aid in case of poisoning by fumigants for the involved medical personnel and doctors at enterprises carrying out fumigation.

2. Templates from separate forms of medical documentation (clinical route of the patient, standard operating procedures, etc.) for secondary medical personnel and doctors involved in the medical and sanitary parts of enterprises conducting fumigation.

3. Training of involved secondary medical personnel and doctors.

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