

Entrance tests

1. The state of labour safety in the Russian Federation and abroad.
2. Hazardous and unhealthy production factors.
3. The homosphere and the noxosphere. Axioms of labour safety.
4. The concept of the professional disease. Their classification.
5. The procedure for investigating an accident, accounting and reporting.
6. The systemic method of hazards identification.
7. The binomial and Poisson`s distribution as models of the frequency of injuries.
8. Safety and economics. The price of risk.
9. Characteristics of the basic forms of the human activity.
10. The severity and tension of labour.
11. Psychological security issues.
12. Requirements for the clean air at workplaces. The concept of threshold allowable concentration
13. Unhealthy substances hazard classes.
14. The microclimate of industrial premises and its regulation.
15. The control of microclimate parameters.
16. Requirements for lighting workplaces. Basic lighting concepts and terms.
17. Methods of calculating artificial lighting. Lighting workplaces control.
18. The basics of noise. Classification of noise.
19. Noise regulation and its control at workplaces.
20. General and local vibration. Vibration normalization.
21. The effect of the electric current on the human body and its determinants. Types of electrical injuries.
22. Classification of premises for the risk of the electric shock. Possible ways of including a person in the electrical circuit and their comparative analysis.
23. Physical characteristics of EMP. Principles of regulation. Protection from EMP.
24. Safety of work on the computer.
25. General safety requirements for components of pressure systems.
26. Safety devices on handling machinery. Registration, technical examination and testing.
27. Normative acts on labour protection. State management of labour protection.
28. Occupational safety service at the enterprise, its functions and tasks.
29. Training and instruction of workers in labour protection.
30. Certification of workplaces.
31. Certification of production facilities for compliance with safety requirements.
32. Control and supervision of compliance with labour protection legislation