

**Questions to prepare for the exam of
" Technology of radiation safety "**

1. Introduction to Radiation
2. List of radiation elements and characteristics
3. Ionizing radiation: Ultraviolet radiation
4. X-ray
5. Alpha decay
6. Beta decay
7. Gamma decay
8. Radioactivity in material
9. Working with radiation
10. Guiding principles: Justification, Optimisation, limitation.
11. Risk control when we work
12. Safety theory
13. Physical Forms of Radiation
14. Future and developing technologies of radiation
15. How to work with radioactive materials: emergency, security. mechanism
16. Nuclear Fission
17. Nuclear interactions
18. Units of radiation intensity
19. Biological effects of radiation.
20. Radiation protection
21. External/internal radiation exposure
22. Radiation Survey meters
23. Dose rate meter
24. Types of Radiation Survey meters.
25. Laboratory rules
26. Emergency procedures
27. Area decontamination
28. Radioactive waste.
29. radiation worker
30. Classification of waste