**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](https://en.wikipedia.org/wiki/Radiation#Ionizing_radiation): [Ultraviolet radiation](https://en.wikipedia.org/wiki/Radiation#Ultraviolet_radiation)  
4. X-ray  
5. Alpha decay  
6. Beta decay  
7. Gamma decay  
8. Radioactivity in material9. 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](https://en.wikipedia.org/wiki/Nuclear_reactor#Future_and_developing_technologies) of radiation

15. How to work with radioactive materials: emergency, security. mechanism

16. Nuclear Fission

17. [Nuiclear](https://en.wikipedia.org/wiki/Nuclear_reactor#Natural_nuclear_reactors) interactions

18. Units of radiation intensity

19. Biological effects of radiation.

20. [Radiation](http://www.world-nuclear.org/information-library/nuclear-fuel-cycle/nuclear-power-reactors/nuclear-power-reactors.aspx#ECSArticleLink2) protection

21. [External/internal](http://www.world-nuclear.org/information-library/nuclear-fuel-cycle/nuclear-power-reactors/nuclear-power-reactors.aspx#ECSArticleLink1) 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