

JSC «ALT Mukhametzhhan Tynyshbayev University»  
Department of " Motor vehicles and life safety"

Questions for citizens of the Republic of Kazakhstan applying  
for a master's degree in groups of educational programs  
"7M11201 - Life safety and environmental protection"  
(profile direction)



**Interview questions**

1. Chromatographic approaches: ion exchange, precipitation, adsorption and thin-layer chromatography
2. Gas chromatography.
3. Process hardware.
4. Chromatographic columns. Detectors.
5. Chromatogram and its parameters.
6. Qualitative and quantitative analysis.
7. The specifics of water as an object of analysis.
8. The main pollutants of water and their classification.
9. The main characteristics of water. (ph, coarse additives-dry, dry sediment, foaming agent, alkalinity, acidity).
10. Total indicators of water quality (color, odor, heavy metals, organic carbon, total nitrogen and sulfur, Ohc, OX, chlorine resistance).
11. Random errors. System errors.
12. Classification of fire extinguishers and fire extinguishers.
13. Purpose of fire communication and alarm system. Fire alarm systems and devices.
14. general rules for extinguishing a fire and the sequence of actions in case of fire.
15. Basic requirements for first aid.
16. first aid measures for burns and frostbite of body parts, eye burns, damage to combustion products, electric shock. Gorenje.
17. The organizational structure of the Fire Protection Service in the Republic of Kazakhstan and in railway transport.
18. Fire safety.
19. organizational measures to ensure fire safety.
20. Occupational health and safety during fire extinguishing.

**Interview questions** was discussed and received a positive decision at the meeting of the Department of « Motor vehicles and life safety», Protocol No. 10 of June 8, 2023.

**Acting Head of the Department**  
« Motor vehicles and life safety»

G.T. Naimanova

**Interview questions** was reviewed and recommended at the meeting of the Council of the Institute of «Transport Engineering», Protocol No. 6 of June 19, 2023.

**Chairman of the CI «Transport Engineering»**

Sh.A. Abdreshov