**Firefighter II Exam 2023**

**Study Guide**

1. Identify safety priorities for a rescue incident.
2. Identify and describe the five types of building construction.
3. Identify the components of a bowstring truss.
   1. Describe the forces each component resists.
4. Define the term standardized codes pertaining to NFRIS reports.
5. Define the term mayday.
6. Define the term staging area.
7. Explain the difference between fluoroprotein film-forming foam and alcohol-resistant foam.
8. Identify the two main types of foam proportioners.
9. Describe what can happen if a foam blanket is disturbed.
10. Describe the method used to determine the origin and cause of a fire.
11. Define the term V-pattern.
12. Explain when the fire department’s authority ends at the fire scene.
13. Explain the difference between an ionization and photoelectric smoke detector.
14. Identify and describe the two main types of indicator valves for sprinkler systems.
15. Explain the differences between a wet and dry sprinkler system.
16. Describe the procedure to ensure power tools are ready after an incident.
17. Identify the two organizations that publish the two primary sets of model fire codes.
18. Describe the material presented during a public safety fire extinguisher presentation.
19. Identify the factors that determine what is presented during a station tour.
20. Explain the difference between a direct and indirect attack.
21. Define the term transitional attack.
22. Describe a visual hose inspection and when it should be done.
23. Explain the difference between a K-tool and an A-tool.
24. Explain the difference between flash point and ignition temperature.
25. Describe the procedures and equipment used for detecting a flammable gas leak.
26. Define the term span of control.
27. Identify and describe the duties of the three command staff positions of an IMS.
28. Explain the difference between a group and division of an IMS.
29. Describe how to determine who is the incident commander.
30. Identify an emergency exit sign.
31. Define the term occupancy.
32. Identify the components of a preincident survey drawing.
33. Describe safety concerns when fueling portable generators.
34. Define the term risk-benefit analysis.
35. Describe the positioning of fire apparatus at a roadway incident.
36. Identify components of the three main components of a passenger car.
37. Explain the difference between laminated and tempered glass.
    1. Identify the locations where this glass is used.
38. Describe the procedures for air bags not deployed.
39. Describe the procedure to force open a vehicle door.
40. Identify safety concerns when opening a roof on a structure.
41. Explain the difference between a gated wye and a Siamese appliance.
42. Explain the difference between a dry-barrel hydrant and a dry hydrant.
43. Identify where gate valves are used.
44. Explain the procedure for hose inspections.
45. Define the term static water supply.
46. Explain the procedure to connect hose sections with different thread types.
47. Explain the difference between defensive and offensive operations.