

FIRE PREVENTION AND CONTROL (Draft 2: 6/12)

Goal: The purpose of this training is to provide information and skills to prevent fires and in the case of fire minimize risk to people and vessel.

Objectives: After successful completion of the course, participants should be able to:

1. Identify at least five potential hazard areas aboard a vessel and how to protect each area from fire.
2. Identify the four elements needed to make a fire (fire triangle/chain reaction).
3. Identify or demonstrate the distinction between class A, B, C, D and K fires.
4. Describe the various extinguishing agents used for five different classes of fire.
5. Identify at least two advantages and two disadvantages of at least six types of extinguishing agents.
6. Identify at least one hazard of at least six common marine fire fighting agents.
7. Identify the risks to the firefighter due to the byproducts of combustion.
8. Define the three ways of heat transfer.
9. Describe the three phases of fire development.
10. Identify the five common portable extinguishers available for shipboard fires.
11. Demonstrate the five steps to using a portable fire extinguisher (APASS).
12. Select the appropriate fire extinguisher agent for at least three classes of fire.
13. Identify at least six tactical considerations when fighting a shipboard fire
14. Demonstrate acceptable methods of application of the portable CO₂, foam and dry chemical extinguishers.
15. Identify the requirements for fixed CO₂ and Halon systems.
16. Identify the types of alarms required for fixed fire fighting systems.
17. Identify in a case study at least three “lessons learned” in a casualty report of a fishing vessel fire.
18. Identify at least ten potential hazardous materials aboard own vessel.
19. Extinguish a small class A, B or C fire as local facilities and regulations allow.
20. Identify at least three inspection points to look for in at least three types of fire extinguishers.
21. Identify the role of the “Boundary man” in a fire fighting team.
22. List at least three shipboard policies to prevent fires at sea.

Additional objectives F/Vs over 79 feet, if applicable per 46 CFR Part 28:

1. Extinguish fire with applicable extinguishing appliances and agents where allowed by law and environmental conditions
2. Extinguish simulated fire using appropriate extinguishing agent for class of fire.
3. Don a fireman’s suit and SCBA correctly within four minutes. (NFPA standard is two minutes for suit & SCBA for firefighter 1 level)
4. Enter a enclosed space wearing SCBA and extinguish simulated fire
5. Perform a rescue in a space wearing SCBA
6. Identify six steps in the maintenance of a SCBA.
7. Identify six steps in the proper donning of an SCBA