

Prerequisites: This course has no formal prerequisite.

Course Length: 16 hours – Course length shall vary depending on the number of delegates.

Class Size: There is a maximum classroom capacity of 20 students. If more than the maximum allowable number of students is registered, a second instructor and classroom of adequate size will be utilized. Practical exercises will be conducted at a student to instructor ratio of no more than 6:1. For internal fires and search and rescue, the ratio will be 3:1.

Course Objectives: Each student who successfully completes this course in basic firefighting will be competent to take appropriate measures for the safety of personnel and of the ship and to use fire appliances correctly to include:

- Shipboard firefighting organization
- Location of firefighting equipment and escape routes
- Causes and prevention of fires.
- Understand the elements of fire, sources of ignition, and the spread of fire.
- Properly don a fire suit
- Properly don and use a self-contained breathing apparatus.
- Use portable fire extinguishers to extinguish small fires.
- Extinguish extensive fires with water using jet and spray nozzles.
- Fight fire in a smoke-filled enclosed space wearing a self-contained breathing apparatus.
- Extinguish fire with water fog or any other suitable firefighting agent in a simulated engine room or accommodation room with fire and heavy smoke.
- Effect a rescue in a smoke-filled space wearing a fire suit and self-contained breathing apparatus.

Course Design

- Power Point® / Lecture / Audio Video / Visual Aids
- Practical Exercises

Successful Course Completion

- All lab assignments, homework assignments, exercises, and tests must be completed and returned to the instructor for credit.
- Requires a minimum score of 70% or better on all examinations.
 - Grades shall be calculated by dividing the number of questions answered correctly by the total number of exam questions.
 - Delegates will have no more than thirty (30) minutes to complete the exam.
- Successful completion of practical session is mandatory.

Course Content Summary

- Classroom
- Practicals

Breaks: 10-15 minutes (approximately every hour)

Lunch: 1 Hour (if applicable)

Course Outline:

Topic	Lecture	Practical
1. Fire Science and Chemistry	1.25	.5
2. Onboard Fire Causes and Prevention	.50	-
3. Vessel Types, Construction, and Arrangement	.25	-
4. Safety Equipment	1.0	1.5
5. Suppression Agents	.5	.5
6. Portable and Semi-portable Extinguishers	.75	.5
7. Water and Foam Fire Fighting Equipment	.75	.25
8. Fire Detection Systems	.25	-
9. Fixed Fire Suppression Systems	.25	-
10. General Fire Fighting Procedures	.75	2.0
11. Pre-fire Planning	.25	-
12. Emergency Response Process	.75	1.75
13. Fire Fighting Strategies and Tactical Procedures	.75	1.0

Practical Session

Where applicable, practical training may require the use of common personal protective equipment and/or specialized equipment as necessary.

The practical shall verify that the candidate can successfully demonstrate following:

- The proper donning procedure for a complete firefighter’s outfit in 3 minutes.
- Using the appropriate fire extinguisher (water, CO2, foam, or dry chemical) and when presented with one or more small fires, demonstrate correct firefighting procedures.
- Don a self-contained breathing apparatus when dressed in a firefighter’s outfit (without gloves on) using one of approved methods.
- Proper use of the breathing apparatus while wearing a firefighter’s outfit (wearing gloves) and with a self-contained breathing apparatus donned:
- Hose team leader procedures when presented with an extensive fire, with heavy smoke in an enclosed space, given a variable or marine all-purpose nozzle on a charged hose line, wearing a firefighter’s outfit and a properly donned self-contained breathing apparatus.
- The proper procedures for effecting a rescue when presented with a smoke-filled space, wearing a firefighter’s outfit and a properly donned self-contained breathing apparatus.

Training Center Provided Material

- PPE
- Firefighting Equipment

Delegate Requirements

- Must possess good physical health as the practical training is physically demanding.

Reference Material / Documents

- STCW Code for Performance Standards
- Marine Fire Fighting, Publ.- International Fire Service Training Association, ISBN 10-0879391774, 1st Ed., Jan 1, 2000
- Model course 1.20 Fire Prevention and Firefighting, Pub.- IMO, 2000 Edition