



Fire Prevention and Fire Fighting

Duration: 2 Days

Entry Standard:

This course is mandatory for all seafarers serving on board sea-going ships.

Course Aim:

To train participants in the principles of shipboard fire prevention, fire-fighting, and use of available fire-fighting equipment carried on board merchant ships to the requirements stipulated in the revised STCW 2010 Convention.

Course Objective:

A student successfully completing this course and meeting the required performance standards will be able to

- understand the theory of fire;
- know the concepts of fire prevention and detection;
- know the fire fighting equipment (fixed and portable) available on board to fight fires;
- understand the ships fire fighting organization structure; and
- state the importance of fire fighting drill.

Course Outline:

1. Introduction, safety and principles

Concept and application of the fire triangle to fire and explosion

1.1 Conditions for fires

1.2 Properties of flammable materials Types and sources of ignition

1.3 Fire prevention principles Flammable materials commonly found on board

1.4 Spread of fire

1.5 Safe practices Need for constant vigilance

1.6 Need for constant vigilance

1.7 Patrol systems Fire hazards

1.8 Fire hazards

2. Organization of shipboard fire fighting

2.1 General emergency alarm

2.2 Fire control plan and muster list

2.3 Communications

2.4 Personnel safety procedures

2.5 Periodic shipboard drill Location of fire fighting appliances and emergency escape route

2.6 Ship construction arrangements

2.7 Emergency fire pump (cargo ship)

2.8 Chemical powder procedures

2.9 Emergency escape routes Fire spread in different parts of ship

2.10 Fire spread

