























# Marine Fire Fighting for Land-Based Fire Fighters Instructor

## Course Administration and Orientation

1. Complete course administration activities.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
a. Confirm prop set up and safety						
b. Arrange access to port and vessel						
c. Confirm facilities set up and safety						
d. Complete and submit course scheduling request						
e. Order student textbooks (if applicable)						
f. Confirm equipment (based on number of students)						
g. Complete instructor assignments						
h. Organize skill stations (location, equipment, timing, complexity)						
i. Complete class rosters						
j. Confirm facilities for off-site instruction						
k. Confirm travel to off-site facilities						
l. Develop summative exam (recommend using chapter tests associated with course textbook)						

<b>2. Identify facility and classroom requirements and course objectives, events, requirements, assignments, activities, skills exercises, resources, evaluation methods, and participation requirements.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify facility requirements						
b. Identify classroom requirements						
c. Review course syllabus						

## Awareness

<b>3. Understand the maritime domain.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Describe risks unique to marine fire fighting						
b. Describe environmental concerns when responding to a marine incident						
c. Identify port services and systems that may impact operational decision making						
d. Identify port facilities and resources common to the AHJ						
e. Describe port equipment that may impact operational decision making						
f. Identify marina facilities and resources common to the AHJ						
g. Describe marina equipment that may impact operational decision making						

<b>4. Understand organizational roles, structures, and resources.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Describe the role of port authorities during a marine incident						
b. Describe the organizational structure of a commercial vessel as it relates to fire fighting						
c. Describe the organizational structure of a military vessel as it relates to fire fighting						
d. Describe the role of land-based fire fighters at a marine incident						
e. Identify governmental organizations that may be involved in a marine incident						
f. Describe legal considerations for land-based fire fighters at a marine incident						
g. Identify AHJ policies and procedures associated with marine incident response						
h. Identify resources that may be available during a marine incident						
<b>5. Identify vessel types and potential products transported.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify characteristics of generalized marine vessel types						
b. Identify awareness-level hazardous product information						
c. Identify general hazard classes of product and structural fire-fighting PPE compatibilities						

<b>6. Define common marine vessel construction and terminology.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Describe marine vessel terminology						
b. Describe general marine vessel construction						
c. Identify arrangement and hazards of vessel spaces						
d. Describe common vessel markings						
e. Identify vessel compartment access and egress points and methods						
f. Identify the major systems necessary on a large vessel						
g. Describe challenges associated with smaller vessels						
<b>7. Describe vessel safety and hazards.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Describe safety measures to take at a marine incident						
b. Identify hazards unique to a marine incident						
c. Describe personal safety practices to take at a marine incident						
d. Describe vessel monitoring procedures						
<b>8. Identify fire detection, signaling, and suppression systems.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify fire detection and signaling systems						
b. Identify types of fire-suppression systems found on vessels						
c. Describe hazards associated with operating suppression systems and agents						

d. Describe appropriate times to activate fixed suppression systems on vessels						
e. Identify land-based fire-suppression components found at ports and marinas						
<b>9. Retrieve a vessel fire control plan and other specified documents.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify the purpose of the fire control plan during emergency response						
b. Identify other important documents						
c. Describe location(s) on the vessel where the vessel fire control plan and other documents are stored						
d. Identify location of the command post						
<b>10. Identify a specified location on a vessel.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Describe terminology and symbols used on a vessel fire control plan						
b. Identify contents of a vessel fire control plan						
c. Describe how to interpret and use a vessel fire control plan						

<b>11. Collect and report vessel stability information.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify basic vessel stability concepts						
b. Describe the effect of tides, wakes/waves, and currents on vessel stability						
c. Describe vessel draft marking systems and how assess and monitor vessel stability						
d. Describe vessel stability as it relates to fire fighting						
e. Describe procedures for reporting information						

## Operations

<b>12. Size up a marine incident.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify size up considerations						
b. Identify steps to take after size up						
<b>13. Locate a marine facility or vessel representative.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify locations on a vessel where the ship's master, mate, engineer, or ship's agent can be located						
b. Identify marine frequencies monitored by the vessel master						
c. Identify locations where facility representatives are normally located						
d. Identify methods for contacting representatives after normal working hours						



<b>14. Control access to a vessel.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Describe the accountability systems used by the AHJ						
b. Identify personnel who are authorized to operate a marine incident						
c. Identify methods for controlling access to a vessel						
<b>15. Board a marine vessel.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Describe effect of vessel movement due to tide, wakes, currents, or other factors						
b. Describe effect of water depth						
c. Describe gangway uses and hazards						
d. Identify key components of gangway safety						
e. Describe water survival techniques						
<b>16. Transmit and receive messages.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify marine communications terminology and procedures						
b. Identify proper frequencies to use						
c. Describe types, capabilities, and limitations of communications systems						
d. Identify other agencies that respond to marine incidents						
e. Describe methods for overcoming language barriers						

<b>17. Evacuate a vessel or exposure.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Describe vessel evaluation and accountability procedures used by the AHJ						
b. Describe how to evacuate a vessel or exposure						
<b>18. Establish water supply connections.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify reliable water sources						
b. Identify an international shore connection						
<b>19. Monitor fire conditions on a vessel.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Describe fire behavior on vessels						
b. Describe how to operate a thermal imaging camera						
c. Describe how to monitor fire conditions on a vessel						
d. Describe safety procedures for operating in or near fire compartments on a vessel						
<b>20. Assist in deploying extinguishing agents.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify appropriate extinguishing agents						
b. Describe effects of various extinguishing agents						
c. Describe hazards associated with various extinguishing agents, including onboard systems						
d. Identify sources of bulk extinguishing agents						

e. Identify role of land-based fire fighter in assisting with deploying extinguishing agents						
<b>21. Protect an exposure on a vessel.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify potential fire boundaries on a vessel						
b. Describe how to set fire boundaries on a vessel						
c. Identify potential exposures around the vessel exterior						
<b>22. Access a fire compartment.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify when to access a fire compartment						
b. Describe desired entry methods for various tactical operations						
c. Describe how to access a fire compartment						
<b>23. Attack a fire on a vessel.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify types of fuels (things burning) found on a vessel						
b. Describe factors to consider when placing attack lines						
c. Describe how to develop a water supply to the vessel						
d. Describe strategies and tactics to advance hose from vessel edge to the warm zone						
e. Describe strategies and tactics to advance hose line to hot zone						
f. Describe hazards associated with advancing hose line to a fire on a vessel						

g. Identify types and application of attack lines used on vessels						
h. Describe effective application of fire streams						
<b>24. Conduct a search and rescue operation on a vessel.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Identify psychological effects of operating in vision-obscured conditions						
b. Identify likely locations of passengers, crew members, shipyard workers, and contractors						
c. Describe methods to determine if the area is tenable						
d. Describe primary and secondary search techniques						
e. Identify search and rescue considerations						
f. Describe location and use of emergency escape breathing devices (EEBD)						
g. Describe victim removal methods						
<b>25. Ventilate smoke from a vessel.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Describe construction principles of a vessel that affect ventilation operations						
b. Describe principles, advantages, limitations, and effects of ventilation						
c. Describe safety considerations when venting a vessel						
d. Describe how to ventilate a vessel after extinguishment						
<b>26. Remove water from a vessel.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>

a. Identify dewatering operations in large vessels						
b. Identify primary methods for dewatering a vessel						
c. Describe dewatering considerations						
d. Describe hazards associated with water collecting in various areas of a vessel						
e. Describe safety precautions to be taken when working in water						
f. Describe hazards associated with water removal in a vessel						

## Application

<b>27. Set up, demonstrate, and oversee skills stations/demonstrations.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. IFSTA Skill Sheet 4-1: Operate Communications at a Marine Incident						
b. IFSTA Skill Sheet 5-1: Control, Direct, and Move Passengers and Crew to Evacuate a Vessel or Exposure						
c. IFSTA Skill Sheet 5-2: Board a Marine Vessel						
d. IFSTA Skill Sheet 5-3: Control Access to a Vessel Using Accountability Tactical Worksheets						
e. IFSTA Skill Sheet 6-1: Locate and Identify Onboard Fire Suppression Systems						
f. IFSTA Skill Sheet 7-1: Locate and Retrieve a Fire Control Plan from a Vessel						
g. IFSTA Skill Sheet 8-1: Ventilate Smoke on a Vessel						
h. IFSTA Skill Sheet 8-2: Protect Exposures by Operating Handlines and Master Streams						

i. IFSTA Skill Sheet 8-3: Establish an International Shore Connection						
j. IFSTA Skill Sheet 8-4: Attack a fire on a Vessel Using Appropriate Extinguishing Agents Other than Water						
k. IFSTA Skill Sheet 8-5: Attack a fire on a Vessel Using Water						
l. IFSTA Skill Sheet 8-6: Determine Appropriate Extinguishing Agent for Onboard Cargo						
m. IFSTA Skill Sheet: 8-7 Locate and Remove a Missing Person on a Vessel						
n. IFSTA Skill Sheet 10-1: Collect and Report Vessel Stability Information						
o. IFSTA Skill Sheet 10-2: Deploy and Operate Dewatering Equipment						
<b>28. Administer summative testing.</b>	<b>Course Code (E1)</b>	<b>Date (E1)</b>	<b>Initials (E1)</b>	<b>Course Code (E2)</b>	<b>Date (E2)</b>	<b>Initials (E2)</b>
a. Administer exam						
b. Score exam						

## Completion Requirements

The following requirements must be completed prior to submitting this task book.

### Experience

The candidate meets the following experience requirement.

- Have a minimum of three (3) years' full-time or six (6) years' part-time/volunteer experience as a fire fighter performing suppression duties within a recognized fire agency in California

Agency	Experience	Start Date	End Date

### Position

State Fire Training confirms that there are no position requirements for instructor registration.

### Updates

The candidate has completed and enclosed all updates to this instructor task book released by State Fire Training since its initial publication.

Number of enclosed updates: \_\_\_\_\_

### Completion Timeframe

The candidate has completed this task book within three years of its initiation date. Otherwise, a candidate must initiate a new task book using the curriculum's current published version.

Initiation Date (see Initiation Date under Initiation Requirements): \_\_\_\_\_

## Review and Approval

### Candidate

Candidate (please print): \_\_\_\_\_

I, the undersigned, am the person applying to teach Marine Fire Fighting for Land-Based Fire Fighters. I hereby certify under penalty of perjury under the laws of the State of California, that the completion of all requirements documented herein is true in every respect. I understand that misstatements, omissions of material facts, or falsification of information or documents may be cause for rejection or revocation.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

### Fire Chief

Candidate's Fire Chief (please print): \_\_\_\_\_

I, the undersigned, am the person authorized to verify the candidate's qualifications to teach Marine Fire Fighting for Land-Based Fire Fighters. I hereby certify under penalty of perjury under the laws of the State of California, that the completion of all requirements documented herein are true in every respect. I understand that misstatements, omissions of material facts, or falsification of information or documents may be cause for rejection.

Signature: \_\_\_\_\_ Date: \_\_\_\_\_