

Marine Fire Fighting for Land-Based Fire Fighters

(NFPA 1005: Marine Fire Fighting for Land-Based Fire Fighters)

Instructor Task Book (2019)



California Department of Forestry and Fire Protection
Office of the State Fire Marshal
State Fire Training

Overview

Authority

This instructor task book includes the training standards set forth in:

- NFPA 1005: Professional Qualifications Standard for Marine Fire Fighting for Land-Based Fire Fighters (2019)

Published: February 2023

Published by: State Fire Training, PO Box 944246, Sacramento, CA 94244-2460

Cover photo courtesy of Steven Lozano, Deputy Fire Chief, San Diego Fire-Rescue Department.

Purpose

The State Fire Training instructor task book is a performance-based document. It lists the minimum requirements a candidate must meet to teach a specific State Fire Training course or course series.

Assumptions

Except for Fire Fighter and Emergency Vehicle Technician (EVT) certifications, a candidate may begin the task book initiation process upon completion of all required education components (courses).

Each job performance requirement (JPR) shall be evaluated after the candidate initiates the task book.

State Fire Training task books do not count towards the NWCG task book limit. There is no limit to the number of State Fire Training task books a candidate may pursue at one time if the candidate meets the initiation requirements for each.

It is the candidate's responsibility to routinely check the State Fire Training website for updates to an initiated task book. All State Fire Training issued updates to an initiated task book are required for task book completion.

A candidate must complete their 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.

Roles and Responsibilities

Candidate

The candidate is the individual pursuing instructor registration.

Initiation

The candidate shall:

1. Complete the Initiation Requirements section.
 - Please print.
2. Complete a block on the Signature Verification page with a handwritten signature.

Completion

The candidate shall:

1. Complete all Job Performance Requirements.
 - Ensure that an evaluator initials, signs, and dates each task to verify completion.
2. Complete the Completion Requirements section.
3. Sign and date the Candidate verification section on the Review and Approval page with a handwritten signature.
4. Obtain their fire chief's handwritten (not stamped) signature on the Fire Chief verification section on the Review and Approval page.
5. Create and retain a physical or high-resolution digital copy of the completed task book.

Submission

The candidate shall:

1. Submit a copy (physical or digital) of the completed task book and any supporting documentation to State Fire Training.
 - See Submission and Review below.

A candidate should not submit a task book until they have completed all requirements and obtained all signatures. State Fire Training will reject and return an incomplete task book.

Evaluator

An evaluator is any individual who verifies that the candidate can satisfactorily execute a job performance requirement (JPR).

A qualified evaluator is a Registered Marine Fire Fighting for Land-Based Fire Fighters Instructor designated by the candidate's fire chief (or authorized designee). If no such evaluator is present within the organization, the fire chief (or authorized designee) shall designate an individual with more experience than the candidate and a demonstrated ability to execute the job performance requirements. For instructor task books that do not require fire chief initiation, academy instructors serve as or designate evaluators.

An instructor task book may have more than one evaluator.

All evaluators shall:

1. Complete a block on the Signature Verification page with a handwritten signature.
2. Review and understand the candidate's instructor task book requirements and responsibilities.
3. Verify the candidate's successful completion of one or more job performance requirements through observation.
 - Do not evaluate any job performance requirement (JPR) until after the candidate initiates the task book.
 - Sign all appropriate lines in the instructor task book with a handwritten signature or approved digital signature (e.g., DocuSign or Adobe Sign; a scanned copy of a signature is not acceptable) to record demonstrated performance of tasks.

Fire Chief

The fire chief is the individual who initiates (when applicable) and then reviews and confirms the completion of a candidate's instructor task book.

A fire chief may identify an authorized designee already on file with State Fire Training to fulfill any task book responsibilities assigned to the fire chief. (See *State Fire Training Procedures Manual*, 4.2.2: Authorized Signatories)

Initiation

The fire chief shall:

1. Review and understand the candidate's instructor task book requirements and responsibilities.
2. Complete a block on the Signature Verification page with a handwritten signature.
3. Designate qualified evaluators.

Completion

The fire chief shall:

1. Confirm that the candidate has obtained the appropriate signatures to verify successful completion of each job performance requirement.

- Ensure that all job performance requirements were evaluated after the initiation date.
- 2. Confirm that the candidate meets the Completion Requirements.
- 3. Sign and date the Fire Chief verification statement under Review and Approval with a handwritten signature.
 - If signing as an authorized designee, verify that your signature is on file with State Fire Training.

Submission and Review

A candidate should not submit a task book until they have completed all requirements and obtained all signatures. State Fire Training will reject and return an incomplete task book.

To submit a completed task book, please send the following items to the address below:

1. A copy of the completed task book (candidate may retain the original)
2. All supporting documentation
3. Payment

State Fire Training

Attn: Instructor Registration

PO Box 944246

Sacramento, CA 94244-2460

State Fire Training reviews all submitted task books.

- If the task book is complete, State Fire Training will authorize the task book and retain a digital copy of the authorized task book in the candidate's career file.
- If the task book is incomplete, State Fire Training will return the task book with a notification indicating what needs to be completed prior to resubmission.

Completion of this instructor task book is one step in the instructor registration process. Please refer to the *State Fire Training Procedures Manual* for the complete list of qualifications required to teach Marine Fire Fighting for Land-Based Fire Fighters.

Initiation Requirements

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

Candidate Information

Name: _____

SFT ID Number: _____

Fire Agency: _____

Initiation Date: _____

Prerequisites

The candidate meets the following prerequisites.

1. OSFM Fire Fighter 2
2. OSFM Instructor 1, Training Instructor I, or Fire Instructor I certification

Include documentation to verify prerequisite requirements when you submit your instructor task book unless verification is already documented in your SFT User Portal.

Education

The candidate has completed the following courses.

1. Marine Fire Fighting for Land-Based Fire Fighters (SFT)
2. Confined Space Rescue: Awareness (SFT, IAFF, or CSTI)

Include documentation to verify education requirements when you submit your instructor task book unless verification is already documented in your SFT User Portal.

Fire Chief Approval

State Fire Training confirms that a fire chief's approval is not required to initiate this task book.

Signature Verification

The following individuals have the authority to verify portions of this instructor task book using the signature recorded below.

Please print except for the Signature line where a handwritten signature is required.
Add additional signature pages as needed.

Name: _____
Job Title: _____
Organization: _____
Signature: _____

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Name: _____
Job Title: _____
Organization: _____
Signature: _____

Job Performance Requirements

Job Performance Requirements

The candidate must complete each job performance requirement (JPR) in accordance with the standards of the authority having jurisdiction (AHJ) or the National Fire Protection Association (NFPA), whichever is more restrictive.

When California requirements exceed or require revision to the NFPA standard, the corresponding Office of the State Fire Marshal approved (OSFM) additions or revisions appear in italics.

All JPRs must be completed within a California fire agency or State Fire Training Accredited Regional Training Programs (ARTP).

Each JPR shall be evaluated after the candidate initiates the task book.

Each task must be performed twice.

- The two instances must occur during two different courses.
- The same evaluator cannot sign off on the same task twice.
- In the tables, E1 represents the candidate's first evaluation and E2 represents their second evaluation.

Examples of correct and incorrect evaluation:

Correct: Task completed during two separate courses and evaluated by two separate individuals.

1. Assemble a comprehensive burn plan ("burn book") that contains all documentation necessary to conduct a live fire training evolution in accordance with NFPA standards and the policies and procedures of State Fire Training (SFT) and the authority having jurisdiction (AHJ).	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
a. Describe purpose of a live fire burn plan	AAA123	2/8/18	JAS	BBB123	5/15/18	CWJ
b. Identify components of a live fire burn plan ("burn book")	AAA123	2/8/18	JAS	BBB123	5/15/18	CWJ
c. Identify records-retention requirements for burn plans	AAA123	2/8/18	JAS	BBB123	5/15/18	CWJ

Incorrect: Task completed twice during one course but evaluated by two separate individuals.

1. Assemble a comprehensive burn plan (“burn book”) that contains all documentation necessary to conduct a live fire training evolution in accordance with NFPA standards and the policies and procedures of State Fire Training (SFT) and the authority having jurisdiction (AHJ).	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
a. Describe purpose of a live fire burn plan	AAA123	2/8/18	JAS	AAA123	2/8/18	CWJ
b. Identify components of a live fire burn plan (“burn book”)	AAA123	2/8/18	JAS	AAA123	2/8/18	CWJ
c. Identify records-retention requirements for burn plans	AAA123	2/8/18	JAS	AAA123	2/8/18	CWJ

Incorrect: Task completed during two separate courses but evaluated by the same individual.

1. Assemble a comprehensive burn plan (“burn book”) that contains all documentation necessary to conduct a live fire training evolution in accordance with NFPA standards and the policies and procedures of State Fire Training (SFT) and the authority having jurisdiction (AHJ).	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
a. Describe purpose of a live fire burn plan	AAA123	2/8/18	JAS	BBB123	5/15/18	JAS
b. Identify components of a live fire burn plan (“burn book”)	AAA123	2/8/18	JAS	BBB123	5/15/18	JAS
c. Identify records-retention requirements for burn plans	AAA123	2/8/18	JAS	BBB123	5/15/18	JAS

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)						

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

Awareness

3. Understand the maritime domain.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						

4. Understand organizational roles, structures, and resources.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
5. Identify vessel types and potential products transported.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						

6. Define common marine vessel construction and terminology.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
7. Describe vessel safety and hazards.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
8. Identify fire detection, signaling, and suppression systems.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
9. Retrieve a vessel fire control plan and other specified documents.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
10. Identify a specified location on a vessel.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						

11. Collect and report vessel stability information.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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

12. Size up a marine incident.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
a. Identify size up considerations						
b. Identify steps to take after size up						
13. Locate a marine facility or vessel representative.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						

14. Control access to a vessel.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
15. Board a marine vessel.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
16. Transmit and receive messages.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						

17. Evacuate a vessel or exposure.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
a. Describe vessel evaluation and accountability procedures used by the AHJ						
b. Describe how to evacuate a vessel or exposure						
18. Establish water supply connections.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
a. Identify reliable water sources						
b. Identify an international shore connection						
19. Monitor fire conditions on a vessel.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
20. Assist in deploying extinguishing agents.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
21. Protect an exposure on a vessel.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
22. Access a fire compartment.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
23. Attack a fire on a vessel.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
24. Conduct a search and rescue operation on a vessel.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
25. Ventilate smoke from a vessel.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
26. Remove water from a vessel.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)

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

27. Set up, demonstrate, and oversee skills stations/demonstrations.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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						
28. Administer summative testing.	Course Code (E1)	Date (E1)	Initials (E1)	Course Code (E2)	Date (E2)	Initials (E2)
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: _____