

State of Oregon
Oregon Department of Public Safety Standards and Training

**Marine Fire Fighting for
Land-Based Fire Fighter II**
Task Book

Task Book Assigned To:	
Name	DPSST Fire Service #
Department Name	Date Initiated
Signature of Department Head or Training Officer	Date Completed

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New 2007

Task Book Qualification Record Books (Task Book) have been developed for various certification levels within the Department of Public Safety Standards and Training (DPSST) system. Each Task Book lists the job performance requirements (JPRs) for the specific certification level in a format that allows a candidate to be trained and evaluated. Successful performance of all tasks, as observed and recorded by a qualified and approved evaluator will result in the candidate's eligibility for DPSST certification.

To become certified at a specific level, the applicant must successfully complete the job performance requirements. Before a job performance evaluation can be taken, all requisite knowledge and skills must be satisfied. In addition, all relative task book evaluations must be checked off by the evaluator. When all prescribed requirements have been met, an application for Certification will be forwarded to DPSST. All certificates are mailed to the Training Officer at his/her department.

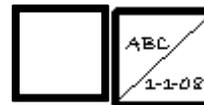
Note to departments: These JPRs serve as general guidelines. As such they are not intended to replace specific sequences of apparatus or equipment operation that may be outlined by manufactured specifications. At all times, Standard Operating Procedures of the department in which the evaluations is being conducted will govern. Departments should have available for evaluators a copy of manufactures specifications

The JPRs covered in this Task Book meet or exceed all NFPA published standards for this certification level at the time of this publication. Mention of NFPA and its standards do not, and are not intended as adoption of—or reference to—NFPA standards. For more information on the complete job performance requirements and data, see the individual DPSST Task Book for that certification level.

HOW TO EVALUATE PERFORMANCE:

Each JPR has one corresponding box to the right in which to confirm a candidate's success. The evaluator shall indicate successful passing by the candidate of each JPR by initialing and dating (see example).

(A) Requisite Knowledge. Construction and normal operation of vessel doors and hatches; forcible entry techniques for vessel doors, hatches, and compartments; safety procedures for securing vessel doors and hatches to prevent them from closing behind fire fighters; desired entry methods for various tactical operations, including ventilation, observation, dewatering, and agent application.



TASK BOOK QUALIFICATION RECORD
FOR THE CERTIFICATION LEVEL OF
MARINE FIRE FIGHTING FOR
LAND-BASED FIRE FIGHTER II

Prior to becoming certified in this position, the Marine Land-Based Fire Fighter candidate must be certified as an NFPA Marine Land-Based Fire Fighter I and successfully complete the following Job Performance Requirements (JPR) three times. The evaluator must initial and date the appropriate boxes to indicate successful completion of each. For each JPR there are requisite knowledge and skill requirements. The evaluator of the first sequence must initial and date in the box provided to indicate the meeting of those requirements before the Marine Land-Based Fire Fighter can proceed. **Asterisks (*) indicate additional information is available in the Appendix of the Evaluation Guide.**

6.1 General Requirements.

To meet the requirements for Marine Fire Fighter II, the Marine Fire Fighter I shall meet the general knowledge requirements in [5.1.1](#), the general skill requirements in [5.1.2](#), and the JPRs in Sections [5.2](#) through [5.5](#).

6.1.1 General Knowledge Requirements. The Marine Fire Fighter II shall have general knowledge of the following:

- (1) Stability characteristics of various types of vessels
- (2) Relationship of stability to trim, list, hull deflection, and draft



6.1.2 General Skill Requirements. (Reserved)

N/A

6.2 Access.

This duty involves making safe access to the scene of an incident and evaluating and securing the scene on or around an involved vessel so that it can be safely boarded, if necessary, according to the JPRs of [6.2.1](#).

6.2.1 Access a fire compartment operating as a member of a team, given a vessel, a team, an assignment, an incident, personal protective equipment, forcible entry tools, and a guide rope or hose line, so that team integrity is maintained, doors and hatches are opened, tools are used, barriers are removed, and the opening is made ready for entry.

(A) Requisite Knowledge. Construction and normal operation of vessel doors and hatches; forcible entry techniques for vessel doors, hatches, and compartments; safety procedures for securing vessel doors and hatches to prevent them from closing behind fire fighters; desired entry methods for various tactical operations, including ventilation, observation, dewatering, and agent application.

(B) Requisite Skills. Transporting and operating forcible entry tools; operating, forcing, and securing vessel doors and hatches; breaching decks and walls.

6.3 Response.

This duty involves the control and extinguishment of fires onboard vessels, including fire attack, ventilation, reconnaissance operations, dewatering operations, and rescue of vessel occupants, according to the JPRs of [6.3.1](#) through [6.3.14](#).

6.3.1 Control marine facility utilities, given a vessel or marine facility, an incident, standard operating procedures, tools, and an assignment, so that the utilities are controlled and command is notified.

(A) Requisite Knowledge. Properties, principles, and safety concerns for electric, gas, sanitary, and water systems at marine facilities; utility disconnect methods and safety precautions specific to marine facilities.

(B) Requisite Skills. Identifying and operating utility controls found at marine facilities and on vessels; assessing the marine facility for utility hazards.

6.3.2* Control cargo transfer to and from a vessel, given a vessel, cargo, equipment, standard operating procedures, and an assignment, so that the cargo transfer status is identified, hazards to fire-fighting operations are recognized and mitigated, and the information is relayed to the Incident Commander.

(A) Requisite Knowledge. Hazards presented by various types of cargo, cargo-handling equipment; procedures for securing and transferring various types of cargo; vessel and facility personnel roles and responsibilities.

(B) Requisite Skills. Using various types of cargo-handling equipment.

6.3.3 Advance hose lines for boundary protection and other defensive fire operations onboard a vessel operating as a member of a team, given a vessel, a team, an incident, an assignment, personal protective equipment, sufficient hose and a nozzle, standard operating procedures, and other equipment necessary to access the intended deployment location, so that team integrity is maintained, the hose line is deployed for advancement and operation, effective agent application practices are used, techniques are appropriate for the type of fire being fought, hazards are recognized and avoided, and the fire is brought under control or the boundary is sufficiently cooled.

(A) Requisite Knowledge. Principles of fire streams; types, design, operation, nozzle pressure effects, and flow capabilities of nozzles; precautions to be followed when advancing hose lines to a fire on a vessel; observable results of a fire stream that has been applied; dangerous vessel conditions created by fire; principles of exposure protection on a vessel; physical states of matter that fuels can be found on a vessel; types and application of attack lines used on vessels; effects of fire streams on various material/fuel configurations; safe locations for operating fire streams on a vessel; recognition of the need to control fire movement aboard a vessel; characteristics and operation of vessel fixed water supply and fire protection systems.

(B) Requisite Skills. Preventing water hammers when shutting down nozzles and valves; opening, closing, and adjusting flow and stream pattern on spray nozzles; advancing charged and uncharged 1½ in. (38 mm) diameter or larger hose lines up and down vessel ladders and stairs, through corridors, and across decks; applying the fire stream to the marine fire area; opening and securing watertight doors and hatches and other doors and hatches onboard a vessel.

6.3.4 Ventilate smoke from a vessel operating as part of a team, given a vessel, a team, an incident, an assignment, personal protective equipment, ventilation tools, equipment, ladders, standard operating procedures, and onboard ventilation systems, so that all equipment is positioned for ventilation, team integrity is maintained, a specified ventilation opening is created and left unobstructed, tools and onboard ventilation equipment are used as designed, all possible ventilation barriers are removed, products of combustion are removed from the vessel, and the team retreats to a safe location once the ventilation opening is made.

(A) Requisite Knowledge. Construction principles of a vessel that affect ventilation operations; principles, advantages, limitations, and effects of horizontal, vertical, natural, and forced ventilation; safety considerations when venting a vessel; operation of onboard ventilation systems; signs, causes, effects, and prevention of backdrafts; products of combustion commonly found in vessel fires; methods of heat transfer and principles of thermal layering on vessels; effects of vessel construction on fire behavior and heat transfer.

(B) Requisite Skills. Transporting and deploying ventilation equipment on a vessel; opening marine doors and hatches; breaching vessel structural components, operating onboard ventilation systems.

6.3.5* Operate onboard vessel fixed fire suppression systems as a member of a team, given a vessel, a team, an incident, a fixed fire suppression system, an assignment, personal protective equipment, standard operating

procedures, and communications equipment, so that the system is activated or shut down when directed by the Incident Commander.

(A) Requisite Knowledge. Types of fixed suppression systems found on vessels; appropriate times to activate fixed suppression systems on vessels; hazards associated with operating fixed suppression systems and agents.

(B) Requisite Skills. Operating fire suppression system controls; operating communications equipment located at the fire suppression system control room.

6.3.6* Assess fire conditions onboard a vessel while operating as a member of a team, given a vessel, a team, an assignment, an incident, personal protective equipment, a hose or safety line, and communications equipment, so that team integrity is maintained and the current size, intensity, location, rate and direction of spread, and other pertinent fire information are relayed to the Incident Commander within the time frame and format established by the AHJ.

(A) Requisite Knowledge. Fire behavior onboard vessels; safety procedures for operating in or near fire compartments on vessels; vessel construction and arrangement.

(B) Requisite Skills. Negotiating vessel ladders, stairs, corridors, and decks; operating in high heat and vision-obscured areas; accurately estimating compartment and fire size and percent of involvement.

6.3.7 Confirm the location and identity of exposures, hazards, or hazardous materials from vessel documents or personnel as a member of a team given a vessel, a team, an assignment, crew members, an incident, a dangerous cargo manifest (DCM), shipping papers, stowage plan, and appropriate reference materials, so that the exposures, hazards, or hazardous materials are identified and the information is conveyed to the Incident Commander.

(A) Requisite Knowledge. Terminology and symbols used in fire control plans; use for and difference between vessel arrangement diagrams and fire control plans; purpose of watch station bills and crew/passenger lists and how they can be used by response personnel in an emergency; location, use, and limitations of a DCM and cargo stowage plan; location where these documents are likely to be found and who will utilize them in an emergency; implications of changes in vessel draft, trim, list, and hull deflection; container numbering systems; placarding and labeling systems; ship layout and construction.



(B) Requisite Skills. Reading and using vessel documents, labels, and placards; identifying various types of containers.



6.3.8 Interpret marine facility and vessel documents, given a vessel fire control plan, passenger and cargo manifests, crew information or other types of documents, communications equipment, and appropriate reference materials, so that the information is interpreted and conveyed to the Incident Commander.



(A) Requisite Knowledge. Terminology and symbols used in fire control plans; use for and difference between vessel arrangement diagrams and fire control plans; purpose of watch station bills and crew/passenger lists and how they can be used by response personnel in an emergency; location, use, and limitations of a DCM and cargo stowage plan; use of a cargo-loading manual and vessel stability book; location where these documents are likely to be found and who will utilize them in an emergency; implications of changes in vessel draft, trim, list, and hull deflection.



(B) Requisite Skills. Locating specific items on fire control plans, such as fire control lockers, agent storage rooms, and fire main connections; using the fire control plan to develop the rescue plan; reading information on a DCM, including hazardous material shipping name, package type, weight, location, hazard class, and UN number.



6.3.9 Remove water from, or transfer water within, a vessel while operating as a member of a team, given a team, a vessel containing water, an assignment, dewatering equipment, and personal protective equipment, so that hazards to the vessel and personnel are identified, equipment is used in the manner for which it was designed, the water is moved or removed, and vessel stability is maintained.

(A) Requisite Knowledge. Methods for removing or transferring water; safety precautions to be taken when working in water; hazards associated with water collecting in various portions of a vessel; hazards associated with water removal or transfer in a vessel.

(B) Requisite Skills. Deploying and operating dewatering equipment.

6.3.10 Attack a fire within a vessel operating as a member of a team, given a vessel, a team, an incident, an attack line, a secondary line, personal protective equipment, ladders or other required equipment, and an assignment, so that team integrity is maintained, the attack line is deployed for advancement, ladders are placed when needed, access is gained to the fire compartment, effective water application practices are used, the fire is approached, attack techniques facilitate suppression given the level of the fire, hidden fires are located and extinguished, hazards are recognized and managed, and the fire is extinguished.

(A) Requisite Knowledge. Principles of fire streams; types, design, operation, nozzle pressure effects, and flow capabilities of nozzles; precautions to be followed when advancing hose lines to a fire on a vessel; observable results of a fire stream that has been applied; dangerous vessel conditions created by fire; principles of exposure protection on a vessel; types of fuels found on a vessel; types and application of attack lines used on vessels; effects of fire streams on various material/fuel configurations; safe locations for operating fire streams on a vessel; recognition of the need to control fire movement aboard a vessel.

(B) Requisite Skills. Preventing water hammers when shutting down nozzles and valves; opening, closing, and adjusting flow and stream pattern on spray nozzles; advancing charged and uncharged 1½ in. (38 mm) diameter or larger hose lines up and down vessel ladders and stairs, through corridors, and across decks; applying the fire stream to the marine fire area; attacking fires on, above, and below the main deck level; advancing multiple hose lines for fire attack, secondary lines in coordination, or both.

6.3.11* Conduct a search and rescue operation for a missing or downed fire fighter on a vessel operating as a member of a team, given a vessel, a team, an assignment, an incident, standard operating procedures, a vessel fire plan or other documents, a downed or missing fire fighter, personal protective equipment, a flashlight, a portable radio, forcible entry tools, a hose or safety line, and other equipment available to the AHJ, so that ladders are placed when needed; all equipment is used as designed; areas where the fire fighter could be located are searched; the fire fighter is located, supported, and removed; team integrity is maintained; and the team members' respiratory protection is not compromised.

(A) Requisite Knowledge. Psychological effects of operating in obscured-vision conditions; methods to determine if the area is tenable; rapid intervention search techniques and strategies for locating and removing downed or missing fire fighters.

(B) Requisite Skills. Using forcible entry tools and ladders during search and rescue operations; using self-contained breathing apparatus (SCBA) while negotiating restricted passages; setting up and using ladders for various rescue situations; rescuing a fire fighter with functioning respiratory protection; rescuing a fire fighter without functioning respiratory protection; accessing remote or enclosed compartments; advancing charged and uncharged 1½ in. (38 mm) diameter or larger hose lines up and down vessel ladders and stairs, through corridors, and across decks; removing fire fighters using carries and drags; operating, forcing, and securing vessel doors and hatches; breaching decks and walls.

6.3.12* Conduct a search and rescue operation for a missing victim on a vessel operating as a member of a team, given a vessel, a team, an assignment, an incident, a vessel fire plan or other documents, a missing victim, personal protective equipment, a flashlight, forcible entry tools, and other equipment available to the AHJ, so that ladders are placed when needed, all equipment is used as designed, areas where the victim could be located are searched, the victim is located and removed, team integrity is maintained, and the team members' respiratory protection is not compromised.

(A) Requisite Knowledge. Psychological effects of operating in obscured-vision conditions; methods to determine if the area is tenable; primary and secondary search techniques on vessels; victim removal methods (including various drags and carries); likely locations of passengers, crew members, shipyard workers, and contractors.

(B) Requisite Skills. Using forcible entry tools and ladders during search and rescue operations; using SCBA while negotiating restricted passages; setting up and using ladders for various rescue situations; rescuing victims without functioning respiratory protection; accessing remote or enclosed compartments; advancing charged and uncharged 1½ in. (38 mm) diameter or larger hose lines up and down vessel ladders and stairs, through corridors, and across decks; removing victims using carries and drags; operating, forcing, and securing vessel doors and hatches; breaching decks and walls.

6.3.13 Determine the need for and deploy special extinguishing agents needed to attack a fire on a vessel, given a vessel, an incident, an assignment, a selection of special extinguishing agents and their use instructions, special agent application equipment, agent quantity calculation devices, and other information allowed by the AHJ, so that the need is identified and communicated to the Incident Commander, the agent is selected for the fire being attacked, the equipment needed to apply the agent is requested and assembled, and a sufficient quantity of agent is applied to extinguish the fire and prevent reignition.

(A) Requisite Knowledge. Classes of fire and the appropriate extinguishing agents for each class and fuel; effects of various extinguishing agents on cargo and life safety; delivery methods for various special extinguishing agents, including onboard systems; sources of bulk special extinguishing agents.

(B) Requisite Skills. Reading cargo manifests; reading technical information on extinguishing agents; calculating extinguishing rates and quantities for various special agents; deploying and operating special extinguishing agent equipment.

6.3.14 Develop a preincident survey for a vessel, given a vessel, measuring and documentation equipment, and a policy for conducting a preincident survey by the AHJ, so that a detailed preincident survey is developed in accordance with the standard operating procedures of the AHJ.

(A) Requisite Knowledge. Hazards associated with marine fire incidents; important strategic and tactical elements of marine fire incidents; necessary elements of a preincident survey for a marine incident.

(B) Requisite Skills. Using measuring and photography equipment; drawing diagrams and plans of vessels and marine facilities; using preincident survey forms or software.

6.4 Communications.
This duty involves no requirements for the Marine Fire Fighter II. **N/A**

6.5 Command.
This duty involves no requirements for the Marine Fire Fighter II. **N/A**