State of Oregon Department of Public Safety Standards and Training

Surface Water Rescue Technician Task Book

Surface Water Rescu	ue Technician Task Book Assigned To:
Name	DPSST Fire Service #
Agency Name	Date Initiated

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Surface Water Rescue Technician Signature Page

A copy of this signature page and documentation of the applicants training must be included with the DPSST Rescue Technician application when applying for NFPA Surface Water Rescue Technician certification. Do not send the entire Task Book. Only a certified Rescue Technician in that specialty area may sign off the Task Book.

<u>Attest:</u> The information contained in this Task Book is true and correct to the best of my knowledge. I understand that a false or misleading statement on this document is subject to penalty under ORS 162.055, et al, and ORS 162.305 and may be cause to deny or revoke a fire service professional certification.

Surface W	ater Rescue Technici	an Task Book Assigned	To:
Signature	Printed Name	DPSST Fire	Service #
Agency Name		Date Initiate	ed .
Signature of Certified Technicia	n Printed	Name of Certified Technician	Date Completed
Rescue Technician Evaluators:	Each Evaluator must doc	cument the following informa	ition:
Evaluator: Level of Rescue Tec Vehicle & Machinery		RopeSurface Wat Structural Collapse	
Sections of chapter signed off by	Evaluator: 2	5	
Signature of Evaluator	Printed name of Evaluator	DPSST Fire #	Date
Evaluator: Level of Rescue TecVehicle & Machinery Sections of chapter signed off by	Confined Space	Structural Collapse	
Signature of Evaluator	Printed name of Evaluator	DPSST Fire #	Date
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Signature of Evaluator	Printed name of Evaluator	DPSST Fire #	Date
Evaluator: Level of Rescue TecVehicle & Machinery Sections of chapter signed off by	Confined Space	RopeSurface Wat Structural Collapse 35	
Signature of Evaluator	Printed name of Evaluator	DPCCT Fire #	Date

Task Book Qualification Record Books (Task Book) have been developed for various certification levels within the Oregon 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 in the skills of that position. Successful performance of all tasks, as observed and recorded by a certified Rescue Technician in that discipline, will result in the candidate's eligibility for DPSST certification.

To become certified at a specific level, the applicant must successfully complete all the job performance requirements. Before a job performance requirement may be taken, all requisite knowledge and skills must be satisfied. Only requisite knowledge and skills may be signed off in the classroom setting by the instructor. Only a certified Rescue Technician in that specialty rescue area may sign off all relative Task Book evaluations at the candidates agency. When all prescribed requirements are completed, an application for certification may be submitted to DPSST. All certificates are mailed to the Training Officer at the agency.

Note to agencies: It is highly recommended that an agency considering a Rescue Technician program reviews NFPA 1670 and follows those standards. These JPRs are general guidelines. As such they are not intended to replace specific sequences of apparatus or equipment operation that may be outlined by manufacturer specifications. At all times, standard operating procedures of the agency in which the evaluation is being conducted will govern. The agencies should have available for evaluators a copy of manufacturer specifications and the agency's standard operational guidelines.

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.

HOW TO EVALUATE PERFORMANCE

Each JPR has a corresponding box to the right in which to confirm a candidate's success in a sequence. The evaluator shall indicate successful passing by the candidate of each JPR by initialing and dating. The candidate needs only perform the skill once to complete. These skills are to be tested after the candidate has completed the training program and by using the equipment of the agency. Testing in the training program does not constitute completion of the skill in a Task Book. Requisite knowledge and skills may be signed off in the training program.

3-3.7	Transfer a victim to emergency medical services (EMS), given local	
	medical protocols, so that all pertinent information is passed from	
	rescuer to EMS provider, and the victim can be transported to a	
	medical care facility.	

Task Book Qualification Record

For the Certification Level of

Surface Water Rescue Technician

Prior to becoming certified in this position, the candidate shall successfully complete the following Job Performance Requirements (JPR). The evaluator shall initial and date the appropriate box to indicate successful completion of each. For each JPR there are requisite knowledge and skill requirements. These requirements must be met before candidate may proceed.

2-1	Because technical rescue is inherently dangerous and rescue technicians are frequently required to perform rigorous activities in adverse conditions, regional and national safety standards shall be included in agency policies and procedures. Rescue technicians shall complete all activities in the safest possible manner and shall follow national, federal, state, provincial, and local safety standards as they apply to the rescue technician.	
2-2	Before beginning training activities or engaging in rescue incidents the following requirements shall be complied with:	
	 Age requirements established by the authority having jurisdiction. (AHJ) Medical requirements established by the AHJ. Minimum physical fitness as required by the AHJ. Emergency medical care performance capabilities for entry-level personnel developed and validated by the AHJ. Minimum educational requirements established by the AHJ. Minimum requirements for hazardous material incident and contact control training for entry-level personnel, validated by the AHJ. 	
2-3	For certification, the rescue technician shall perform all of the job performance requirements in Chapter 3 and all job performance requirements listed in at least one of the specialty areas (Chapters 4-9).	

3-2 Site Operations 3-2.1 Identify the needed support resources, given a specific type of rescue incident, so that a resource cache is managed, scene lighting is adequate for the tasks to be undertaken, environmental concerns are managed, personnel rehabilitation is facilitated, and the support operation facilitates rescue operational objectives.

(a) **Requisite Knowledge:** Equipment organization and tracking methods, lighting resource type and availability, shelter and thermal control options, and rehab criteria.

(b) *Requisite Skills:* The ability to track equipment inventory, identify lighting resources and structures for shelter and thermal protection, select rehab areas, and manage personnel rotations.

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3-2.2 Size up a rescue incident, given background information and applicable reference materials, so that the type of rescue is determined, the number of victims is identified, the last reported location of all victims is established, witnesses are identified and interviewed, resource needs are assessed, search parameters are identified, and information required to develop an incident action plan is obtained.



(a) **Requisite Knowledge:** Types of reference materials and their uses, availability and capability of the resources, elements of an action plan and related information, relationship of sizeup to the incident management system, and information gathering techniques and how that information is used in the sizeup process.

(b) *Requisite Skills:* The ability to read technical rescue reference materials, gather information, relay information, and use information gathering sources.

3-2.3 Manage incident hazards, given scene control barriers personal protective equipment, requisite equipment, and available specialized resources, so that all hazards are identified, resource application fits the operational requirements, hazard isolation is considered, risks to rescuers and victims are minimized, and rescue time constraints are taken into account.

(a) **Requisite Knowledge:** Resource capabilities and limitations, types, and nature of incident hazards, equipment types and their use, isolation terminology, methods, equipment and implementation, operational requirement concerns, common types of rescuer and victim risk, risk-benefit analysis methods and practices, and types of technical references.



	(b)	Requisite Skills: The ability to identify resource capabilities and limitations, identify incident hazards, assess victim viability (risk-benefit), utilize technical references, place scene control barriers, and operate control and mitigation equipment.	
3-2.4	infor work and s utiliz desir are assig	agement resources in a rescue incident, given incident mation, a means of communication, resources, tactical asheets, personnel accountability protocol, applicable references, standard operating procedures, so that references are corr3ectly red, personnel are accounted for, deployed recourses achieve res objectives, incident actions are documented, rescue efforts coordinated, the command structure is established, task rements are clearly communicated and monitored, and actions consistent with applicable regulations.	
	(a)	Requisite Knowledge: Incident management system, tactical worksheet application and purposes, accountability protocols, resource types and deployment methods, documentation methods and requirements, availability, capabilities and limitations of rescuers and other resources, typical communication problems and needs, communications requirements, methods and means, types of tasks and assignment responsibilities, policies and procedures of the agency, and technical references related to the type of rescue incident.	
	(b)	Requisite Skills: The ability to implement an incident management system. Complete tactical worksheets, use reference materials, evaluate incident information, match resources to operational needs, operate communications equipment, manage incident communications, and communicate in a clear and concise manner so that objectives are met.	
3-2.5	equiplocate paramand of the strelay expertechric	duct a search, given hazard-specific personal protective pment, equipment pertinent to search mission, an incident cion, and victim investigative information, so that search meters are established, victim profile is established, the entry exit of all people either involved in the search or already within search area are questioned and the information is updated and red to command, the personnel assignments match their rise, all victims are located as quickly as possible, applicable nical rescue concerns are managed, risks to searchers are mized, and all searchers are accounted for.	
	(a)	Requisite Knowledge: Local policies and procedures and how to operate in the site-specific search environment.	

	(b) Requisite Skills: The ability to enter, maneuver in, and exit the search environment and provide for and perform self-escape/rescue.	
3-2.6	Perform ground support and operations for helicopter activities, given a rescue scenario/incident, helicopter, operational plans, personal protective equipment, requisite equipment, and available specialized resources, so that rescue personnel are familiar with operational characteristics of the aircraft and demonstrate operational proficiency in establishing and securing landing zones and communicating with aircraft personnel until the assignment is complete.	
	(a) Requisite Knowledge: Ground support operations relating to helicopter use and deployment, operation plans for helicopter service activities, type-specific personal protective equipment, aircraft familiarization and hazard areas specific to helicopter, scene control and landing zone requirements, aircraft safety systems, and communications protocols.	
	(b) <i>Requisite Skills:</i> The ability to provide ground support operations, review standard operating procedures for helicopter operations, use personal protective equipment, establish and control landing zones, and communicate with aircrews.	
3-2.7	Terminate the incident, given isolation barriers and specialized teams and equipment so that all personnel are accounted for and removed from the scene, hazards are eliminated or controlled, further entry in denied, the victim is transported to the appropriate care facility, the scene is rendered safe, rescue personnel are returned to a state of readiness, appropriate reporting and documentation of the incident is completed, and a critique and critical incident stress debriefing is conducted with rescue personnel.	
	(a) Requisite Knowledge: How to secure a scene, forms for documentation, resources for critical incident stress debriefing, and local medical transportation protocol.	
	(b) Requisite Skills: The ability to provide scene security, complete reporting documentation of the incident, and apply local medical transportation protocol.	
3-3	Victim Management	
3-3.1	Access a victim, given tool kits, personal protective equipment, and other equipment designed to allow physical approach to the victim so that hazards are managed, the rescuer can approach the victim, the access point is determined, the means of access is maintained and secures, and an escape route is identified.	

	(a)	potential hazards within the rescue environment, methods and means to gain access, use of appropriate personal protective equipment and tool kit(s) used to gain access to the victim, and factors used to identify escape routes.	
	(b)	Requisite Skills: The ability to manage hazards, use provided tools, use personal protective equipment, and choose safe entry and escape routes and techniques and tools (specific to the rescue environment) to make access to the victim.	
3-3.2	protaid inju	ess a victim, given personal protective equipment to include ection for airborne and bloodborne pathogens and a basic first kit, so that required resources can be identified and obtained, ries are identified, risks to rescuers are minimized, victim bility is established, and treatment priorities are established.	
	(a)	Requisite Knowledge: Victim assessment procedures, universal precautions for infectious disease, emergency medical care, considerations related to mechanisms of injuries, issues relating to protocol, and types of resources and availability.	
	(b)	Requisite Skills: The ability to use personal protective clothing, use personal protective equipment, follow established assessment procedures, relate mechanism of injury to assessment, and evaluate scene hazards.	
3-3.3	airw circu	bilize the victim, given a basic first aid kit, so that the victim's vay is established and maintained, ventilation is adequate, ulation is maintained, severe bleeding is controlled, spinal nobilization precautions are taken, and the victim is treated for ck.	
	(a)	Requisite Knowledge: Emergency medical care and uses for personal protective equipment.	
	(b)	Requisite Skills: The ability to initiate emergency medical care and use personal protective equipment.	
3-3.4	vers reso care	ge victims, given triage tags and local protocol, so that rescue us recovery factors are considered, triage decisions reflect surce capabilities, severity of injuries is determined, and victim and rescue priorities are established in accordance with local ocol.	
	(a)	Requisite Knowledge: Types and systems of triage according to local protocol, resource availability, methods to determine injury severity, ways to manage resource, and prioritization requirements.	

	(b)	Requisite Skills: The ability to use triage materials, techniques, and resources and to categorize victims properly.	
3-3.5	spec are	tage an ill or injured victim, given a basic first aid kit and other ialized equipment if available, so that environmental conditions considered, illnesses or injuries are managed, and the potential further injury is minimized.	
	(a)	Requisite Knowledge: Effects of environmental conditions on packaging, emergency medical care, packaging equipment and methods, ways to minimize additional injuries, immobilization techniques, and application of victim personal protective equipment.	
	(b)	Requisite Skills: The ability to select and apply packaging equipment, protects a victim, immobilize injuries, and apply personal protective equipment to a victim.	
3-3.6	equivicti envi injur secu the r	re a victim to low-angle environment, given victim transport pment, litters, other specialized equipment if available, and m removal systems appropriate to the specific rescue ronment, so that the victim is moved without undue further ries, risks to rescuers are minimized, the integrity of the victim's rement within the transfer device is established and maintained, means of attachment to the rope rescue system is secure, and the m is removed from the hazard.	
	(a)	Requisite Knowledge: Types of transport equipment and removal systems, selection factors with regard to specific rescue environments, methods to reduce and prevent further injuries, types of risks, common to rescuers, ways to establish and maintain victim securement, transport techniques, rope rigging applications and methods, and types of specialized equipment and their uses.	
	(b)	Requisite Skills: The ability to secure a victim to transport equipment, assemble and operate environment-specific victim removal systems, and choose an incident-specific transport device.	
3-3.7	med resci	asfer a victim to emergency medical services (EMS) given local ical protocols, so that all pertinent information is passed from uer to EMS provider, and the victim can be transported to a ical facility.	
	(a)	Requisite Knowledge: Medical protocols for victim transfer, uses for checklists, triage tags or report forms utilized for this purpose by the authority having jurisdiction, risks, laws and liabilities related to victim transfer, and information needs of the EMS provider.	

	(b)	history to the EMS provider and to complete reports and checklists, and verbal communication skills.	
3-4	Mai	ntenance	
3-4.1	give inclumair indic of c defe equi been	ect and maintain hazard-specific personal protective equipment, n clothing or equipment for the protection of the rescuers, ading respiratory protection, cleaning and sanitation supplies, natenance logs or records, and such tools and resources as are cated by manufacturer's guidelines for assembly or disassembly components during repair or maintenance, so that damage, cts, and wear are identified and reported or repaired as needed, pment functions as designed, and preventive maintenance has a performed and documented consistent with the manufacturer's mmendations.	
	(a)	Requisite Knowledge: Functions, construction, and operation of personal protective equipment; use of record-keeping systems of the authority having jurisdiction; requirements and procedures for cleaning, sanitizing and infectious disease control; use of provided assembly and disassembly tools; manufacturer and agency recommendations; pre-use inspection procedures; and ways to determine operational readiness.	
	(b)	Requisite Skills: The ability to identify wear and damage indicators for personal protective equipment; evaluate operational readiness of personal protective equipment; complete logs and records; use cleaning equipment, supplies, and reference materials; and select and use tools appropriate to the task.	
3-4.2	recor guid stand equi for o stand	ect and maintain rescue equipment, given maintenance logs and rds, tools and resources as indicated by the manufacturer's elines, an equipment replacement protocol, and organizational dard operating procedure, so that the operational status of pment is verified and documented, all components are checked operation, deficiencies are repaired or reported as indicated by dard operating procedure, and items subject to replacement ocol are correctly disposed of and changed.	
	(a)	Requisite Knowledge: Functions and operations of rescue equipment, use of record-keeping systems, manufacturer and organizational care and maintenance requirements, selection and use of maintenance tools, replacement protocol and procedures, disposal methods, and organizational standard operating procedures.	

	(b)	Requisite Skills: The ability to identify wear and damage indicators for rescue equipment, evaluate operation readiness of equipment, complete logs and records, and select and use maintenance tools.	
3-5	Rop	es/Rigging	
3-5.1		knots, bends, and hitches, given ropes and webbing, so that the as are properly dressed, recognizable, and safetied as required.	
	(a)	Requisite Knowledge: Knot efficiency, proper knot utilization, rope construction, rope terminology, and methods of safety.	
	(b)	Requisite Skills: Tie representative knots, bends, or hitches for the following purposes:	
		 End of the line loop Midline loop Securing rope around desired objects Joining rope or webbing ends together Gripping rope 	
3-5.2	prote that exce	struct a single-point anchor system, given life safety rope, edge ection, and other auxiliary rope rescue equipment if available, so the chosen anchor system fits the incident needs, meets or eds the expected load, and does not interfere with rescue	
	anch asse load	rations, the critical angle is not exceeded, a safe and efficient nor point is chosen, the need for redundant anchor points is ssed and used as required, the anchor system is inspected and ed prior to being placed into service, and the integrity of the em is maintained throughout the operation.	
	(a)	Requisite Knowledge: Application of knots, safe rigging principles, anchor selection criteria, system safety check procedures, rope construction, and rope rescue equipment applications and limitations.	
	(b)	Requisite Skills: The ability to select rope and equipment; tie knots; rig systems; evaluate anchor points for desired strength, location, and surface contour; and perform a system safety check.	
3-5.3	safet rope can	struct a simple rope mechanical advantage system, given life ty rope, carabiners, pulleys, rope grab devices, and auxiliary rescue equipment if available, so that the system constructed accommodate the load, is efficient, and is connected to an nor system and the load.	

	(a)	capabilities and limitations of various simple rope mechanical advantage systems, applications of knots, safe rigging principles, and system safety check procedures.	
	(b)	Requisite Skills: The ability to select rope and equipment, tie knots, choose and rig systems, attach the mechanical advantage system to the anchor system and load, and perform a system safety check.	
3-5.4	rescri syste mov oper appr	act a team in the operation of a simple rope mechanical antage system, given rescue personnel, and established rope us system incorporating a simple rope mechanical advantage em, a load to be removed, and an anchor system, so that the ement is controlled, the load can be held in place when needed, rating methods do not stress the system to the point of failure, ropriate commands are used to direct the operation, and potential olems are readily identified, communicated, and managed.	
	(a)	Requisite Knowledge: Principles of mechanical advantage, capabilities and limitations of various simple rope mechanical advantage systems, proper operation of simple rope mechanical advantage systems, personnel assignments, and operational commands.	
	(b)	Requisite Skills: Direct personnel effectively, use operational commands, analyze system efficiency, identify safety concerns, and perform system safety check.	
3-5.5	rope if a effic mini	struct a lowering system, given an anchor system, life safety of (s), descent control device, and auxiliary rope rescue equipment vailable, so that the system can accommodate the load, is cient, is capable of holding the load in place or lowering with simal effort over the desired distance, and is connected to an hor system and the load.	
	(a)	Requisite Knowledge: Capabilities and limitations of various descent control devices, capabilities and limitations of various lowering systems, applications of knots, safe rigging principles, and system safety check procedures.	
	(b)	Requisite Skills: The ability to tie knots, perform rigging, properly attach to descent control device, anchor system, and load, and perform a system safety check.	
3-5.6	estal mov oper rope	oct a lowering operation, given appropriate rescue personnel, an oblished lowering system, and a load to be moved, so that the ement is controlled, the load can be held in place when needed, rating methods do not stress the system to the point of failure, a commands are used to direct the operations, and potential olems are readily identified, communicated, and managed.	

	(a)	Requisite Knowledge: Applications and use of descent control devices, capabilities and limitations of various lowering systems, proper operation of lowering systems, personnel assignments, and operational commands.	
	(b)	Requisite Skills: The ability to direct personnel effectively, use operational commands, analyze system efficiency, manage movement of the load, identify safety concerns, and perform a system safety check.	
3-5.7	person if av will actuation	struct a belay system, given life safety rope, anchor systems, conal protective equipment, and auxiliary rope rescue equipment vailable, so that the system is capable of arresting a fall, a fall not result in system failure, the system is not loaded unless ated, actuation of the system will not injure or render the belayer fective, the belayer is not rigged into the equipment components are system, and the system is suitable to the site and is connected an anchor system and the load.	
	(a)	Requisite Knowledge: Principles of belay systems, capabilities and limitations of various belay devices, application of knots, safe rigging principles, and system safety check procedures.	
	(b)	Requisite Skills: The ability to select a system, tie knots, perform rigging, attach to anchor system and load, don and use task-specific personal protective equipment, and perform a system safety check.	
3-5.8	an or so the rope line system the oper	rate a belay system during a lowering or raising operation, given perating lowering or hauling system, a belay system, and a load, nat the belay line is not loaded during operation of the primary rescue system, the belay system, and a load, so that the belay is not loaded during operation of the primary rope rescue em, the belay system is prepared for actuation at all times during operation, the belayer is attentive at all times during the ation, the load's position is continually monitored, and the yer moves rope through the belay device as designed.	
	(a)	Requisite Knowledge: Application and use of belay devices, proper operation of belay systems in conjunction with normal lowering and hauling operations, and operational commands.	
	(b)	Requisite Skills: The ability to tend a belay system as designed, tie approved knots, assess system effectiveness, properly attach a belay line to a belay device, don and use task-specific personal protective equipment, perform a system safety check, and manage and communicate belay system status effectively.	

3-5.9	Belay a falling load, given a belay system and a dropped load, so that the belay line is not taut until the load is falling, the belay device is actuated when the load falls, the fall is arrested, the belayer utilizes the belay system as designed, and the belayer is not injured or rendered ineffective during actuation of the belay system.		
	(a)	Requisite Knowledge: Application and use of belay devices, effective emergency operation of belay devices to arrest falls, personal protective equipment, and operating procedures.	
	(b)	Requisite Skills: The ability to operate a belay system as designed, tie approved knots, use task-specific personal protective equipment, recognize and rapidly react to a falling load, and communicate belay system actuation.	
3-5.10	rescu made load	duct a system safety check, given a rope rescue system and the personnel, so that a physical/visual check of the system is the to ensure proper rigging, a load test is performed prior to lifeting the system, and verbal confirmation of these actions is bunced and acknowledged before life-loading the rope rescue tem.	
	(a)	Requisite Knowledge: System safety check procedures, construction and operation of rope rescue systems and their individual components, proper personal protective equipment, equipment inspection criteria, signs of equipment damage, principles of safe rigging, and equipment replacement criteria.	
	(b)	Requisite Skills: The ability to apply and use personal protective equipment, inspect rope rescue system components for damage, assess a rope rescue system for improper configuration, secure equipment components, inspect all rigging, and perform a system safety check.	
5	Surf	ace Water Rescue	
5-1.1	Develop a site survey for an existing water hazard, given historical data, specific personal protective equipment for conducting site inspections, flood insurance rate maps if applicable, tide tables if applicable, and meteorological projections, so that life safety hazards are anticipated, risk-benefit analysis is included, site inspections are completed, water conditions are projected, site-specific hazards are identified, routes of access and egress are identified, boat ramps (put-in and take-out points) are identified, and areas with high probability for victim location are determined.		

	(a)	types, sources, and information provided by reference materials, hydrology and influence of hydrology on rescues; types of hazards associated with water rescue practices, inspection practices, and considerations; risk-benefit analysis, identification of hazard-specific personal protective equipment; factors influencing access and egress routes; behavioral patterns of victims; and environmental conditions that influence victim location.	
	(b)	Requisite Skills: The ability to interpret reference material, evaluate site conditions, complete risk-benefit analysis, select and use personal protective equipment for performing site inspections, anticipate rescue-specific personal protective equipment and specialized equipment needs, and predict victim behavior and movement.	
5-1.2	surfa pers from adec be n eval	ace water rescue assignment and assorted items of water rescue onal protective equipment, so that the rescuer will be protected in temperature extremes and blunt trauma, the rescuer will have quate flotation for tasks to be performed, swimming ability will maximized during rescue activities, self-rescue needs have been uated and provided for, and a means of summoning help has in provided.	
	(a)	Requisite Knowledge: Classes of personal flotation devices; selection criteria for in-water insulation garments, personal flotation devices, and water rescue helmets; personal escape techniques; applications for and capabilities of personal escape equipment; and equipment and procedures for signaling distress.	
	(b)	Requisite Skills: Selection of personal flotation devices, donning and doffing personal flotation devices, selection of water rescue helmets, donning and doffing water rescue helmets, selection of in-water insulating garments, donning and doffing of in-water insulating garments, proficiency in emergency escape procedures, and proficiency in communicating distress signals.	
5-1.3	reprotest rescription rescription requirements requirements requirements requirements reprotest rescription reprotest rescription reprotest rescription rescription rescription reprotest rescription	m a designated water course, given a course that is esentative of the bodies of water existing or anticipated within geographic confines of the authority having jurisdiction, water ue personal protective equipment, and swimming aids as tired, so that the specified objective is reached, all performance meters are achieved, movement is controlled, hazards are tinually assessed, distress signals are communicated and rapid revention for the rescuer has been staged for deployment.	

	(a)	Requisite Knowledge: Hydrology and specific hazards anticipated for representative water rescue environments (shoreline, in-water, and climatic), selection criteria for water rescue personal protective equipment and swim aids for anticipated water conditions and hazards, and swimming techniques for representative body of water.	
	(b)	Requisite Skills: The ability to swim and float in different water conditions with and without flotation aids or swimming aids (as required), apply water survival skills, don and doff personal protective equipment, select and use swim aids, utilize communications systems, and evaluate water conditions to identify entry points and hazards.	
5-1.4	topo perse direc dete- inter activ	ine search parameters for a water rescue incident given or appropriate and a search area, descriptions of all missing ons and incident history, hydrologic data including speed and action of current or tides, so that areas with high probability of action are differentiated from other areas, witnesses are reviewed, critical interview information is recorded, passive and we search tactics are implemented, personnel resources are sidered, and search parameters are communicated.	
	(a)	Requisite Knowledge: Topographical map components, hydrologic factors, methods to determine high probability of detection areas, critical interview questions and practices, methods to identify track traps, ways to identify spotter areas and purposes for spotters, personnel available and effects on parameters definition, the effect of search strategy defining the parameter, communication methods, and reporting requirements.	
	(b)	Requisite Skills: Read topographic maps, determine hydrology, conduct interviews, read and mark track traps, and correlate personnel availability, search strategy, and conditions to the parameter definition.	
5-1.5	bour incid infor infor are t equi cons	elop an action plan for a shore-based rescue of a single, water- nd victim, given an operational plan where available, an dent, size-up information, protocols, rescue personnel, resource rmation, and water rescue took kit, so that all available rmation is factored, risk-benefit analysis is conducted, protocols followed, hazards are identified and minimized, personnel and pment resources will not be exceeded, assignments are defined, sideration is given for changing conditions, and the selected regy and tactics fit the conditions.	

	(a)	Requisite Knowledge: Elements of an action plan; types of and information provided by reference materials and size-up; hydrology; types of hazards associated with water rescue practices, risk-benefit analysis, identification of hazard-specific personal protective equipment, factors influencing access and egress routes; behavioral patterns of victims; environmental conditions that influence victim location; safety, communications, and operational protocols, and resource capability and availability.	
	(b)	Requisite Skills: The ability to interpret and correlate reference and size-up information; evaluate site conditions; complete risk-benefit analysis; apply safety, communications, and operational protocols; specify personal protective equipment requirements; and determine rescue personnel requirements.	
5-1.6	that indoes rescurescurand in	oy a water rescue rope to a water-bound victim, given a water the rope in a throw bag and personal protective equipment, so the deployed rope lands in the victim's hands, the rescue rope not slip through the rescuer's hands, the victim is moved to the ter's shoreline, the victim is not pulled beneath the surface by the reforts, the rescuer is not pulled into the water by the victim, neither the rescuer not the victim is tied to or entangled in the viline.	
	(a)	Requisite Knowledge: types and capabilities of personal protective equipment, effects of hydrodynamic forces on rescuers and victims, hydrology and characteristics of water, behaviors of water-bound victims, safe water rescue rope-handling techniques, incident-specific hazard identification, criteria for selecting victim retrieval locations based on water environment and conditions, hazards and limitations of shore-based rescue, local policies/procedures for rescue team activation, and information on local water environments.	
	(b)	Requisite Skills: The ability to select personal protective equipment specific to the water environment, don personal protective equipment, identify water hazards (i.e., upstream or downstream, current, or tides), identify hazards directly related to the specific rescue, demonstrate proficiency in deploying water rescue roe from throw bags, and demonstrate appropriate shore-based victim removal techniques.	
5-1.7	water and j in th rescu victin rescu	oy a water rescue rope to a water-bound victim, given a coiled rescue rope of 50 ft. to 75 ft. (15.240m to 22.860 m) in length personal protective equipment, so that the deployed rope lands he victim's hands, the rescue rope does not slip through the her's hands, the victim is moved to the rescuer's shoreline, the main is not pulled beneath the surface by rescuer's efforts, the her is not pulled into the water by the victim, and neither the her nor the victim is tied to or entangled in the throw line.	

	(a)	Requisite Knowledge: Types and capabilities of personal protective equipment, effects of hydrodynamic forces on rescuers and victims, hydrology and characteristics of water, behaviors of water-bound victims, safe water rescue rope-handling techniques, incident-specific hazard identification, criteria for selecting victim retrieval locations based on water environment and conditions, hazards and limitations of shore-based rescue, local policies/procedures for rescue team activities, and information on local water environments.	
	(b)	Requisite Skills: The ability to select personal protective equipment specific to the water environment, and don personal protective equipment, identify water hazards (i.e., upstream or downstream, current or tides), identify hazards directly related to the specific rescue, demonstrate proficiency in deploying water rescue rope from throw bags, and demonstrate appropriate shore-based victim removal techniques.	
5-1.8	moo wate traile	loy watercraft, given watercraft; support vehicles; watercraft reyances; launch and recovery sites, docks, marinas or rings; support personnel; and operational protocols; so that the ercraft is launched and recovered without damage or injury; ers, conveyances, and support vehicles are utilized within the e of their designed specifications; and the rescue effort is not yed.	
	(a)	Requisite Knowledge: Motor vehicle laws and operational protocols for support vehicles with watercraft conveyances, designed applications and limitations for support vehicles with watercraft conveyances during launch and recovery operations, location and routes of access to and egress from watercraft launch/recovery sites, support of vehicle operations, and launch/recovery protocols.	
	(b)	Requisite Skills: The ability to support vehicle operations with and without trailers/conveyances, procedures for launching/recovering watercraft from the water, and operation of watercraft conveyances.	
5-1.9	water of the configuration of	otiate a designated water course in a watercraft, given a creaft that is available to the team, a course that is representative the bodies of water existing or anticipated within the geographic lines of the authority having jurisdiction, a range of assignments water rescue personal protective equipment, so that the specified crives are attained, all performance parameters are achieved, ement is controlled, hazards are continually assessed, launch not proceed if the watercraft is not adequate for the conditions, ess signals are communicated, and rapid intervention for the ercraft crew has been staged for deployment.	

	(a)	watercraft, dynamics of moving water and its effects on watercraft handling, launch and docking procedures, conditional requirements for personal protective equipment, applications for motorized and nonmotorized craft, operating hazards as related to conditions, and crew assignments and duties.	
	(b)	Requisite Skills: The ability to navigate watercraft with and without means of propulsion, evaluate conditions for launch, don water rescue personal protective equipment, utilize communications systems, apply procedures for broaching and righting watercraft, and apply procedures for casting and recovering personnel from watercraft.	
5-1.10	incap gives exist author team secu the mair	member of a team, use a parbuckling technique to extricate and pacitated water-bound victim from the water to a watercraft, in a water hazard that is representative of the bodies of water ting or anticipated within the geographic confines of the ority having jurisdiction, a watercraft that is available to the in, nets, webbing, blankets, tarpaulins or ropes, a means of rement, and water rescue personal protective equipment, so that watercraft is not broached, control of the watercraft is intained, risks to victim and rescuers is minimized, and the victim moved from the hazard.	
	(a)	Requisite Knowledge: Limitations and uses of available watercraft, parbuckling (rollup) techniques, dynamics of moving water and its effects on watercraft handling, conditional requirements for personal protective equipment, and effects of extrication on watercraft handling and stability.	
	(b)	Requisite Skills: The ability to construct a simple mechanical advantage system, anchor mechanical advantage systems in watercraft, and demonstrate proper lifting techniques.	
5-1.11	Extricate an incapacitated water-bound victim from the water to the shore as member of a team, given spinal stabilization devices, patient transfer devices, a water hazard that is representative of the bodies of water existing or anticipated within the geographic confines of the authority having jurisdiction, and water rescue personal protective equipment, so that positive buoyancy for the victim and the rescuers is maintained, the victim's airway, respiratory efforts, and ventilatory support are not compromised, the victim's cervical spine is maintained in alignments, risks to victim and rescuers is minimized, and the victim is removed from the hazard.		

	(a)	Requisite Knowledge: Effects of environmental conditions on spinal stabilization and transfer devices, emergency medical care, packaging equipment and methods, ways to minimize additional injuries, immobilization techniques, hydrology and specific hazards anticipated for specific water rescue environment, and selection procedures for water rescue personal protective equipment.		
	(b)	Requisite Skills: The ability to secure a victim to spinal stabilization and transfer devices, stabilize a victim's spine manually while in the water, don and doff personal protective equipment, roll a victim from face-down to face-up [position, and evaluate water conditions to select exit points and identify hazards.		
5-1.12	for v mair and	Perform a swimming surface water rescue, given water rescue personal protective equipment, swim aids as required, floatation aids for victims, and reach/extension devices, so that victim contact is maintained, the rescuer maintains control of the victim, the rescuer and the victim reach safety, and medical conditions and treatment options are considered.		
	(a)	Requisite Knowledge: Hydrology and specific hazards anticipated for representative water rescue environment (shoreline, in-water, and climatic), victim behavior patterns, emergency countermeasures for combative victims, selection criteria for water rescue personal protective equipment, swim aids and flotation aids for anticipated water conditions, victim abilities and hazards, swimming techniques for representative bodies of water, and signs, symptoms, and treatment of aquatic medical emergencies.		
	(b)	Requisite Skills: The ability to swim and float in different water conditions with and without flotation aids or swimming aids; apply water survival skills; manage combative water-bound victims; don and doff personal protective equipment, flotation aids, and swim aids; utilize communications systems; select equipment and techniques for treatment of aquatic medical emergencies; and evaluate water conditions to identify entry points and hazards.		
5-1.13	team to b mov oper perse com to j	ct a team in the operation of a highline system as a member of a n, given rescue personnel, an established highline system, a load be moved, and personal protective equipment, so that the ement is controlled, the load is held in place when needed, rating methods do not stress the system to the point of failure, connel assignments are made and tasks are clearly municated, operational commands are distinctly communicated personnel, and potential problems are readily identified, municated, and managed.		

	(a)	Requisite Knowledge: Ways to determine incident needs s related to the operation of highline systems, capabilities and limitations of various highline systems, incident site evaluation as related to interference concerns and obstacle negotiation, system safety check protocol, procedures to evaluate system components for compromised integrity, common personnel assignments and duties, assignment considerations, common and critical operational commands, common highline problems and ways to minimize or manage them, and ways to increase the efficiency of load movement.	
	(b)	Requisite Skills: the ability to determine incident needs, complete a system safety check, evaluate system components for compromised integrity, select personnel, communicate with personnel effectively, manage movement of the load, and evaluate for potential problems.	
5-1.14	the a a he and helic estable and safe of the configuration personal and the configuration and the configuration and the a and the configuration and the co	ne applications for helicopter aquatic rescue operations within area of responsibility for the authority having jurisdiction, given elicopter service, operational protocols, helicopter capabilities limitations, rescue procedures, and risk factors influencing copter operations, so that air-to-ground communications are blished and maintained, applications are within the capabilities skill levels of the helicopter service, the applications facilitate victim(s) extrication from water hazards that are representative ne bodies of water existing or anticipated within the geographic lines of the authority having jurisdiction, air crew and ground onnel safety are not compromised, landing zones are designated secured, and fire suppression resources are available at the ing zone.	
	(a)	Requisite Knowledge: Local aircraft capabilities and limitations, landing zone requirements, hazards to aircraft, local protocols, procedures for operating around aircraft, dynamics of rescue options, crash survival principles, personal protective equipment, limitations and selection criteria, and ancillary helicopter rescue equipment.	
	(b)	Requisite Skills: The ability to determine applicability of air operations, establish and control landing zones, assess fire protection needs, communicate with air crews, identify hazards, rig aircraft for anticipated rescue procedures, apply crash survival procedures, and select and use personal protective equipment.	