

# **OREGON STATE SEARCH AND RESCUE**

## ***Qualified Search and Rescue Personnel Core Competency Recommended Guidelines***

Revision Number: 8.4  
2014

**FINAL**

# Document Administration

The Oregon State Core Competency Recommended Guidelines, will be reviewed annually or as appropriate after an exercise or incident response. The document will be formally re-approved by OSSA once per year.

## Record of Document Changes

All updates and revisions to the document will be tracked and recorded in the following table. This process will ensure that the most recent version of the plan is disseminated and implemented by SAR personnel.

Date	Change No.	Summary of Changes	Initials
3.14.14	1	Added Record of Document Changes	SNR
3.14.14	2	Corrected minor grammatical and formatting errors	SNR
3.14.14	3	Standardized verbiage (Personnel, member, etc.)	SNR
3.14.14	4	Added "Authorized Official" to definitions list	SNR
3.14.14	5	Removed "Learning for Life" verbiage from definition of ESAR	SNR
3.14.14	6	Revised definitions of Type III/IV on pages 6/10 (under supervision of)	SNR
3.14.14	7	Added additional language re State SAR frequencies in definitions	SNR
3.14.14	8	Added additional verbiage about specialty teams in recertification paragraph. "Some specialty teams whose minimum skills are far greater than the skills outlined in this document, may choose to set different recertification guidelines"	SNR
3.14.14	9	Removed "man" from "man tracking" in specialty disciplines	SNR

3.14.14	10	Added night operation requirement to Type III	SNR
3.14.14	11	Added verbiage regarding fitness tests - "Specific and appropriate tests to be determined by each Sheriff"	SNR
3.14.14	12	Changed "Responder Types" box on table page to match proper definitions	SNR
3.14.14	13	Added verbiage (#'s 1/2) to field performance criteria for types 1-3 in Survival Skills, "Where land use rules and the environment allow"	SNR
3.14.14	14	Removed #'s 7/8 in field performance criteria for types 1 and 2 in Survival Skills	SNR
3.14.14	15	Removed all "Optional" performance criteria (Land Navigation)	SNR
3.14.14	16	Added #15 in field performance criteria for Land Navigation to types 1-3. This is night navigation that type 3 is required to do now.	SNR
3.14.14	17	Added verbiage in Appendix A "Medical personnel such as Doctors, Registered Nurses, Physicians Assistants etc. who maintain current first aid, CPR, AED and blood borne pathogens training as a condition of their employment are not required to take additional training to meet the SAR standard as long as their status can be verified."	SNR

## OREGON STATE SEARCH AND RESCUE CERTIFICATION CRITERIA

*The purpose of this document is to establish a standardized set of core competencies for Ground/Land Search and Rescue personnel in Oregon State. Additionally, this document establishes a process for changes, modifications, and updates of the state core competency. It needs to be noted that core competencies are, by their nature, living documents and processes, which will require review and modifications as protocols and best practices change and are formally accepted.*

▪ **OR-ST-SAR - OBJECTIVES**

Establish minimum standardized core competencies and associated levels of training for search and rescue personnel involved in search and rescue operations in Oregon State. Additionally, to provide each Sheriff with a body of professional, trained, and qualified search and rescue personnel to accomplish the mission of search and rescue.

▪ **OR-ST-SAR - DEFINITIONS**

Word or Acronym	Definition
OR-ST-SAR	<ul style="list-style-type: none"> <li>▪ Oregon State Search and Rescue</li> </ul>
Sheriff	<ul style="list-style-type: none"> <li>▪ <b>404.110 Search and rescue activities; responsibilities of sheriff; delegation of sheriff's duties.</b> (1) The sheriff of each county has the responsibility for search and rescue activities within the county. The duty of a sheriff under this subsection may be delegated to a deputy or other qualified person.</li> </ul>
Search and Rescue Team or Unit (SAR Team or SAR Unit)	<ul style="list-style-type: none"> <li>▪ A group of Search and Rescue personnel who are officially recognized by a County Sheriff.</li> </ul>
Search and Rescue Member/Personnel (SAR Member)	<ul style="list-style-type: none"> <li>▪ An individual who is a member of an officially recognized search and rescue team or unit.</li> </ul>
Certified	<ul style="list-style-type: none"> <li>▪ Having successfully passed all testing and demonstrated performance objectives outlined in this document for mission deployable SAR personnel.</li> </ul>
Oregon State SAR Card	<ul style="list-style-type: none"> <li>▪ Certified SAR personnel shall be issued a SAR card from the Sheriff of the county in which their organization of membership is based.</li> </ul>
First Aid/CPR Card	<ul style="list-style-type: none"> <li>▪ The card issued after successful completion of a course of instruction in first aid and cardio pulmonary resuscitation by a recognized organization (i.e. American Heart Association, American Red Cross, and recognized by Oregon State as a recognized first aid program).</li> </ul>
AED	<ul style="list-style-type: none"> <li>▪ An <b>Automated External Defibrillator</b> or <b>AED</b> is a portable electronic device that automatically diagnoses the potentially life threatening cardiac arrhythmias of ventricular fibrillation and ventricular tachycardia in a subject . Training courses need to be conducted on the operation and functions of an AED (American Heart Association, American Red Cross, or Oregon State recognized AED training program).</li> </ul>

<b>Training Mission</b>	<ul style="list-style-type: none"> <li>▪ "Training mission means a planned, nonemergency activity for the development, maintenance, or upgrading of Search and Rescue Personnel skills.</li> </ul>
<b>Mission</b>	<ul style="list-style-type: none"> <li>▪ "Mission" means a distinct assignment of personnel and equipment to achieve a set of tasks related to an incident, emergency, disaster, or search and rescue operation that occurs under the direction and control of a County Sheriff</li> </ul>
<b>Evidence Search (Mission)</b>	<ul style="list-style-type: none"> <li>▪ "Evidence search" means a nonemergency search activity utilizing Search and Rescue skills to look for evidentiary material resulting from criminal activity.</li> </ul>
<b>Blood Borne Pathogens (BBP)</b>	The successful completion of a basic course of instruction in blood borne pathogens by a recognized organization (i.e. American Heart Association, American Red Cross, and Oregon State as a recognized blood borne pathogens training program).
<b>Performance Objective</b>	<ul style="list-style-type: none"> <li>• Exercises that measure an individual's skill at performing specified tasks, or to determine if the student has a certain body of knowledge.</li> </ul>
<b>AFRCC</b>	<ul style="list-style-type: none"> <li>▪ United States Air Force Rescue Coordination Center</li> </ul>
<b>Authorized Official</b>	<ul style="list-style-type: none"> <li>▪ "Authorized official" means the designee of the County Sheriff.</li> </ul>
<b>C.A.P.</b>	<ul style="list-style-type: none"> <li>▪ Civil Air Patrol</li> </ul>
<b>ESAR</b>	<ul style="list-style-type: none"> <li>▪ Explorer Search and Rescue</li> </ul>
<b>Search and Rescue Coordinator (SAR Coordinator)</b>	<ul style="list-style-type: none"> <li>▪ The person designated by the County Sheriff, to coordinate the search and rescue program.</li> </ul>
<b>Field Team or Field Unit</b>	<ul style="list-style-type: none"> <li>▪ Personnel that are involved in field operations.</li> </ul>
<b>Support Team or Support Unit</b>	<ul style="list-style-type: none"> <li>▪ Personnel that are involved in support of field operations.</li> </ul>
<b>Sign</b>	<ul style="list-style-type: none"> <li>▪ The discoverable physical evidence of the passage or presence of a person.</li> </ul>
<b>SARAC</b>	<ul style="list-style-type: none"> <li>▪ <b>S</b>earch and <b>R</b>escue <b>A</b>dvisory <b>C</b>ouncil</li> </ul>
<b>OSSA</b>	<ul style="list-style-type: none"> <li>▪ <b>O</b>regon <b>S</b>tate <b>S</b>heriffs' <b>A</b>ssociation</li> </ul>
<b>OEM</b>	<ul style="list-style-type: none"> <li>▪ <b>O</b>regon <b>E</b>mergency <b>M</b>anagement</li> </ul>
<b>ORS</b>	<ul style="list-style-type: none"> <li>▪ <b>O</b>regon <b>R</b>evised <b>S</b>tatutes</li> </ul>
<b>ICS</b>	<ul style="list-style-type: none"> <li>▪ <b>I</b>ncident <b>C</b>ommand <b>S</b>ystem (<b>ICS</b>)</li> <li>▪ ICS: Is a personnel management structure through which disaster response is controlled. The system allows the development of a command chain of any size that can include government agencies and non-governmental organizations alike.</li> </ul>
<b>NIMS</b>	<p><b>National Incident Management System (NIMS)</b></p> <ul style="list-style-type: none"> <li>▪ NIMS: The organization through which disaster management is coordinated. NIMS is designed to prepare for, prevent, and manage response to emergency and disaster situations, and to coordinate emergency response disaster responders on the local, state and federal levels.</li> </ul>
<b>NASAR</b>	<ul style="list-style-type: none"> <li>▪ <b>N</b>ational <b>A</b>ssociation of <b>S</b>earch <b>a</b>nd <b>R</b>escue</li> </ul>

<b>Personnel Types</b>	<ul style="list-style-type: none"> <li>▪ <b>Type I</b> - A searcher/person certified to participate in field operations for 72 hours in all environment types.</li> <li>▪ <b>Type II</b> - A searcher/person certified to participate in field operations for 24 hours in type B-D environments.</li> <li>▪ <b>Type III</b> A searcher/person who has met the training requirements for participating in field missions for up to 12 hours in type C and D environments.</li> <li>▪ <b>Type IV</b> –A searcher/person who operate in base, or can be field deployed for up to 12 hours with external support in type D environments.</li> </ul>
<b>State SAR frequencies</b>	<b>155.805 MHz FM and /or other licensed frequencies.</b>

**Note: The noted definitions and acronyms apply to this document.**

**Note: If NIMS, FEMA, or other governing organizations add terminology or definitions those definitions or terminology will be added or cross-referenced in this document.**

▪ **OR-ST-SAR – 1.0 MINIMUM CORE COMPETENCY**

**To obtain and maintain the Oregon State Search and Rescue basic certification, each person must:**

- Possess a current First Aid/CPR/BBP certification.
- Possess a valid State Driver’s License (if eligible to operate a motor vehicle in Oregon State) or a valid state issued identification card. If eligible to operate a motor vehicle, they must also obtain motor vehicle insurance that satisfies the Oregon State insurance requirements. If operating a personally owned motor vehicle (POV) said vehicle must meet any and all Oregon State motor vehicle requirements.
- Successfully complete all performance objective skill tests and achieve a minimum score of 80% on written exams for tested areas of the Core Competency.
- Successfully complete;
  - FEMA IS-100
  - FEMA IS-700
  - Any other federal, state, or local training requirement that is defined as needed by the sponsoring jurisdiction.
- Possess a SAR card authorized by the Sheriff of the County responsible for local search and rescue missions where the personnel’s SAR team is based and registered.
- Attend annually, thirty hours or more of continuing education, approved by Sheriff of each County, each year, in subjects related to search and rescue.
- Annual continuing education hours may be done during a SAR mission or on supervised and approved “mock” or “practice” search and rescue training operation
- All SAR personnel should wear clothing appropriate to their assigned task. Clothing should be appropriate to terrain, location, and weather conditions of the SAR personnel assigned duty area, task assignment area, and mission objectives (i.e. hi-visibility, rain gear, wool clothing, etc.).

▪ **OR-ST-SAR – 1.1 PERFORMANCE OBJECTIVE TESTS**

Certification; each applicant must successfully complete all performance objective skill tests. Performance objective skill tests measure the applicants' ability to perform a given task. These tests may be taken as many times as necessary to successfully demonstrate the ability to accomplish the given task. The applicants' successful completion of a task should be marked on an evaluation form as "demonstrated". The applicants' failure to properly complete a given task should be marked as "needs improvement" until the applicant can successfully complete said task. A digital version of a Task Book will be made available to each Sheriff at no cost. The Sheriff of the County may require a higher standard if they choose.

▪ **OR-ST-SAR – 1.2 WRITTEN EXAMINATION**

Applicants must pass the written exam with a minimum score of 80%, for each area requiring testing (i.e. navigation, survival skills, etc.). The exam shall be administered by the Sheriff's Office, or designee, for the county of certification. The written exam shall be developed by SARAC's core competency exam team and approved by OSSA. The written exam and its answer sheet will be provided to each county Sheriff through the OSSA. Students may be remediated at the Sheriff or their designee's discretion. The Sheriff of the County may require a higher standard and add to the written test if they choose.

▪ **OR-ST-SAR – 1.3 COMPLIANCE WITH THE CORE COMPETENCY**

The Sheriff of each county should endeavor to implement the core competencies as set forth in this document.

Each Sheriff should attempt to use only personnel who have successfully completed a training course that meets or exceeds the minimum core competencies as outlined in this document.

Sheriffs are encouraged to recertify search and rescue personnel every other year by means of retesting using the core competency examinations. (Some specialty teams whose minimum skills are far greater than the skills outlined in this document, may choose to set different recertification guidelines)

Search and Rescue units should comply with all local, state and federal ordinances, regulations and laws that govern search and rescue activities.

▪ **OR-ST-SAR – 1.4 SPECIALTY DISCIPLINES**

In addition to the minimum core competencies outlined here, some Sheriffs may require SAR personnel operating in their jurisdictions to possess additional specialized training. SAR personnel may need to meet certification core competencies for their specialty. Nothing listed in the minimum core competencies shall be construed so as to limit or replace the certification requirements of any specialty unit.

These specialty areas may include, but are not limited to; mountain rescue, K-9, water rescue, swift water, whitewater, rope rescue, technical rescue, tracking, ELT/PLB location, all-terrain vehicles (ATV), snowmobiles, communications, mounted or horse units, and 2 and 4 wheel drive.

Search Environment Type			
Type D Urban Environments	Type C Moderate / Gentle Terrain Environments	Type B Rugged / Terrain Environments	Type A Extreme / Complex Terrain Environments
High Traffic, Urban Office Complexes, Man-Made Surfaces, Public Interaction and Park Trails.	Gently Rolling Terrain, Open Spaces, Maintained Trailheads, Agricultural Areas.	Rugged Conditions, Altitude generally under 7000', Heat, Cold concerns, Moderate to Heavy Ground Cover.	Extreme Conditions (including but not limited to) Altitude (generally 7000'+) or Snow, Ice, Desert, Heat, Heavy Ground Cover, Chemical, Steep difficult terrain.

Recommended Capabilities and Skills				
Searcher Type	TYPE 4	TYPE 3	TYPE 2	TYPE 1
Can be deployed to Environment Type	D	C/D	B/C/D	A/B/C/D
Operational periods w/o external support	One Operational Period (with external support)	One Operational Period Must be prepared for night operations.	Capable of field assignments up 24 hours. Must be prepared for night operations.	Capable of multiple operational periods, up to 72 hour deployments.
Subject and Searcher First Aid	Current First Aid CPR/AED	Current First Aid CPR/AED	Current First Aid/CPR  BLS certifications and protocols recommended. Wilderness endorsements preferred.	Current First Aid/CPR  ALS certifications and protocols recommended. Wilderness endorsements preferred.
Radio Communications	Member should be familiar with basic radio communication skills. This should include: understanding the use of Mutual Aid Radio Frequencies and basic radio etiquette.	Personnel should be familiar with basic radio communication skills. This should include: understanding the use of Mutual Aid Radio Frequencies and basic radio etiquette.	Personnel should be familiar with basic radio communication skills. This should include: understanding the use of Mutual Aid Radio Frequencies and basic radio etiquette.	Personnel should be familiar with basic radio communication skills. This should include: understanding the use of Mutual Aid Radio Frequencies and basic radio etiquette.
Search Organization and Management	ICS 100, 700	ICS 100, 700	ICS 100, 200, 700,	ICS 100, 200, 700,
Helicopter Safety	Basic Helicopter Safety, Ability to assist with establishment of landing site.	Basic Helicopter Safety, Ability to assist with establishment of landing site.	Basic Helicopter Safety. Knowledge and familiarity with Loading/ Unloading (Both Hot and Cold). Ability to establish landing site.	Basic Helicopter Safety. Knowledge and familiarity with Loading/ Unloading (Both Hot and Cold). Ability to establish landing site.
Crime Scene Awareness and Management	Personnel should be familiar with basic crime scene protection, chain of evidence and documentation. Personnel should be familiar with the handling of sensitive information, including deceased subject protocols.	Personnel should be familiar with basic crime scene protection, chain of evidence and documentation. Personnel should be familiar with the handling of sensitive information, including deceased subject protocols.	Personnel should be familiar with basic crime scene protection, chain of evidence and documentation. Personnel should be familiar with the handling of sensitive information, including deceased subject protocols.	Personnel should be familiar with basic crime scene protection, chain of evidence and documentation. Personnel should be familiar with the handling of sensitive information, including deceased subject protocols.
Land Navigation	Intellectual knowledge of maps, coordinate system, datum, and basic compass familiarity.	Basic navigation skills. Determine and communicate position (UTM only); navigate point-to-point with GPS and/or map/compass; route-finding.	Advanced navigation skills. Determine and communicate position; navigate point-to-point with GPS and map/compass; route-finding.	Advanced navigation skills. Determine and communicate position; navigate point-to-point with GPS and map/compass; route-finding.
Clue Awareness	Clue and track familiar.	Clue and track familiar.	Clue and track familiar.	Clue and track familiar.
Physical Fitness *Specific and appropriate tests to be determined by each Sheriff, or designee	Fitness appropriate for conditions, terrain and missions.	"Moderate" pack test required	"Moderate" pack test required	"Arduous" pack test required.



**Ratification**

Reviewed and dated by the appropriate representatives of the following listed parties.

**Oregon State Search and Rescue Advisory Council - SARAC**

Signed

Date

Signed

Date

**Oregon Office of Emergency Management - OEM**

Signed

Date

**Oregon State Sheriffs' Association**

Signed

Date

### Skills and Knowledge Goals by Subject, Topic, and Training Type for Searcher Qualification Levels

Topic/Subject Matter Area	Field Type 4 SAR Personnel			Field Type 3 SAR Personnel			Field Type 2 SAR Personnel			Field Type 1 SAR Personnel		
	CT / WE	FPE	FT	CT / WE	FPE	FT	CT / WE	FPE	FT	CT / WE	FPE	FT
Class and or Evaluation Type												
Physical & Mental Fitness	WE			WE		FT	WE		FT	WE		FT
Legal Issues	WE			WE			WE			WE		
Survival Skills & Equipment	WE			WE	All		WE	All	FT	WE	All	FT
Radio Communications	WE	1-7		WE	1-7		WE	All	FT	WE	All	FT
Land Navigation	WE 1-12	1-9	FT	WE 1-12	1-14	FT	WE 1-16	1-15	FT	WE 1-16	1-15	FT
GPS Operation	WE	1-6	FT	WE	1-9	FT	WE	All	FT	WE	All	FT
Law Enforcement Support Skills	WE			WE			WE			WE		
Search Organization & Management	WE			WE			WE			WE		
Search Techniques	WE			WE	1-3		WE	All	FT	WE	All	FT
Helicopter Safety	WE			WE			WE			WE		
Clue Awareness and Identification				WE	All		WE	All	FT	WE	All	FT
Subject & Searcher First Aid	WE		FT	WE	All	FT	WE	All	FT	WE	All	FT
Rescue Techniques	WE			WE	All		WE	All	FT	WE	All	FT
Searcher Safety	WE			WE			WE			WE		

#### Personnel Types

- **Type 1** - A searcher/person certified to participate in field operations for 72 hours in all environment types
- **Type 2** - A searcher/person certified to participate in field operations for 24 hours in type B-D environments.
- **Type 3** - A searcher/person who has met the training requirements for participating in field missions for up to 12 hours in type C and D environments.
- **Type 4** – A searcher/person who operate in base, or can be field deployed for up to 12 hours with external support in type D environments.

Classroom Training = **CT**    Written Evaluation = **WE**    Field Performance Evaluation = **FPE**    Field Training = **FT**

**PHYSICAL & MENTAL FITNESS**

Requirement	Classroom - Performance Criteria for All Types
<p><b>Through written statements, formal application processes, and verbal statements the Personnel must attest to being physically and mentally capable of performing assigned mission tasks.</b></p>	<ol style="list-style-type: none"> <li>1. In the initial application process, SAR personnel must attest to being;                             <ul style="list-style-type: none"> <li>▪ Physically capable of performing assigned duties and tasks.</li> <li>▪ Mentally capable for assigned duties and tasks.</li> </ul> </li> <li>2. Annually, SAR personnel must attest to being;                             <ul style="list-style-type: none"> <li>▪ Physically capable of performing all assigned tasks for their level of training.</li> <li>▪ Mentally capable of performing any and all duly assigned tasks for their level of training.</li> </ul> </li> <li>3. SAR personnel must inform the “authorized official” of any;                             <ul style="list-style-type: none"> <li>▪ Physical impairments that may impact their ability to perform assigned mission tasks.</li> <li>▪ Mental impairments that may impact their ability to perform assigned mission tasks.</li> </ul> </li> </ol>

**LEGAL ISSUES**

Requirement	Classroom - Performance Criteria for All Types
<p><b>Through Written Evaluation, the Personnel will demonstrate the knowledge of:</b></p>	<ol style="list-style-type: none"> <li>1. Under Oregon State law, who is responsible for search and rescue (SAR) missions.</li> <li>2. When a search area may be restricted and who may restrict the search area.</li> <li>3. The limitations of the Good Samaritan Law.</li> <li>4. The elements of “Duty to Act” for SAR personnel.</li> <li>5. When mechanized equipment can be used in a wilderness area.</li> <li>6. The elements of direct and vicarious liability.</li> <li>7. Legal issues related to searching on private property.</li> </ol>

**SURVIVAL SKILLS & EQUIPMENT**

Requirement	Classroom - Performance Criteria for All Types
<p><b>Through Written Evaluation, personnel will demonstrate the knowledge of:</b></p>	<ol style="list-style-type: none"> <li>1. Clothing worn by SAR personnel for their assigned SAR operations must be appropriate for conditions encountered on the mission.</li> <li>2. What actions should be taken when mission personnel become lost or injured?</li> <li>3. The three elements of fire.</li> <li>4. Minimum hydration requirements for SAR mission personnel.</li> <li>5. Three Methods of water purification and their effectiveness.</li> <li>6. Fundamentals of survival in a non-urban environment.</li> </ol>

Requirement	Field - Performance Criteria Types 1 - 3
<p><b>Through Field Performance Evaluation, personnel will demonstrate the ability to:</b></p> <p><i>(These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated)</i>  <u>Does Not Apply to:</u>  <u>Type 4 personnel.</u></p>	<ol style="list-style-type: none"> <li>1. Where land use rules and the environment allow, build a fire using materials found in the field and carried in a mission ready pack/kit. The fire must be constructed in a manner that will provide personal warmth; or team warmth; or warmth for a found subject for 8 to 12 hours.</li> <li>2. Where land use rules and the environment allow, identify fuel for a fire to provide heat and location identification for 12 to 24 hours, fuel sources must be from the field.</li> <li>3. Heat and provide warm fluids to a team member and/or the found subject.</li> <li>4. Use any three (3) emergency signaling methods, plus one (1) emergency aircraft signaling method.</li> <li>5. Deploy and erect a shelter that is well marked and visible to nearby searchers, durable enough to protect from wind, rain, or snow, using materials carried in a mission ready pack/kit. The shelter must be sustainable for 12 to 18 hours for the SAR personnel, and/or subject.</li> <li>6. Present the equipment needed for emergency pack/kit and describe their use (county specific list of equipment), the personnel will be asked to remove certain specified items and describe their use. (Reference county SAR field operations guide or county SAR specific protocol for equipment).</li> </ol>

**RADIO COMMUNICATIONS**

Requirement	Classroom - Performance Criteria for All Types
<p><b>Through Written Evaluation, personnel will demonstrate the knowledge of:</b></p>	<ol style="list-style-type: none"> <li>1. The difference between a frequency and a channel.</li> <li>2. The function of a repeater.</li> <li>3. The function and operation of a manual relay.</li> <li>4. The importance of keeping batteries warm during cold weather.</li> <li>5. A basic knowledge of radio performance and the effects of frequency band selection, terrain, distance, and structures have on radio communications.</li> <li>6. A basic knowledge of radio plain “English” and associated procedures.</li> <li>7. A basic knowledge of the county’s inter-unit and intra-unit communications procedures, protocols, and frequencies.</li> <li>8. Determine the antenna orientation for best radio wave transmission and reception.</li> </ol>

Requirement	Field - Performance Criteria for All Types
<p><b>Through Field Performance Evaluation, personnel will demonstrate the ability to:</b></p> <p><i>(These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated)</i></p>	<ol style="list-style-type: none"> <li>1. Identify the Push-to-Talk switch.</li> <li>2. Identify the Channel/Frequency selector.</li> <li>3. Change the radio’s batteries.</li> <li>4. Select a channel as requested by search command (frequency change).</li> <li>5. Operate any mobile radios commonly used in their unit if applicable.</li> <li>6. Act as a manual relay using a single radio.</li> </ol>

**LAND NAVIGATION**

Requirement	Classroom - Performance Criteria for All Types
<p><b>Through Written Evaluation, personnel will demonstrate the knowledge of:</b></p>	<ol style="list-style-type: none"> <li>1. Identify the different types of maps used in SAR.</li> <li>2. Identify the primary coordinate systems used in SAR.</li> <li>3. Identify a 10x10 meter location on a map using UTM</li> <li>4. Use a UTM scale to measure metric distance on a map</li> <li>5. Define the difference between true and magnetic north.</li> <li>6. Identify the relevance of datum and coordinate systems</li> <li>7. Identify the advantages and limitations of GPS.</li> <li>8. Determine the contour interval on a map without the border information</li> <li>9. Determine the elevation of a point on a map.</li> <li>10. Identify the coordinate system most commonly used by aircraft and maritime vessels.</li> <li>11. Identify 10 common map symbols.</li> <li>12. Identify the components of a compass.</li> </ol>

Requirement	Classroom - Performance Criteria Types 1 and 2
<p><b>Through Written Evaluation, personnel will demonstrate the knowledge of:</b></p>	<ol style="list-style-type: none"> <li>13. Identify a location on a map using latitude and longitude (degrees – minutes - decimal minutes).</li> <li>14. Identify a location on a map using latitude and longitude (degrees – minutes - seconds).</li> <li>15. Identify a location on a map using latitude and longitude (degrees – decimal degrees).</li> <li>16. Define several advantages and disadvantages of the different map coordinate systems.</li> </ol>

**LAND NAVIGATION CONTINUED**

Requirement	Field - Performance Criteria for All Types
<p><b>Through Field Performance Evaluation, personnel will demonstrate the ability to:</b></p> <p><i>(These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated)</i></p>	<ol style="list-style-type: none"> <li>1. Adjust the declination of a compass for their location.</li> <li>2. Orient a map of where they are to true north.</li> <li>3. Read contour lines on a topographic map and identify their relationship to physical objects on the ground.</li> <li>4. Determine the true north bearing between two points and the back azimuth on a map</li> <li>5. Plot a true north bearing on a map from a single point.</li> <li>6. Plot a true north bearing on a map to a single point.</li> <li>7. Demonstrate the ability to take a bearing on a selected object, expressing it in true north degrees.</li> <li>8. Demonstrate the ability to shoot a true north bearing given in degrees.</li> <li>9. Plot a coordinate using the primary coordinate system in your area of operation.</li> </ol>

**LAND NAVIGATION CONTINUED**

Requirement	Field - Performance Criteria Types 1 - 3
<p><b>Through Field Performance Evaluation, personnel will demonstrate the ability to:</b></p> <p><i>(These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated)</i></p> <p><u>Numbers 10 through 14 - Do Not Apply to Type 4 personnel</u></p>	<ol style="list-style-type: none"> <li>10. Plot their location using a map and compass either by triangulation or some other method not involving GPS or being given their coordinate.</li> <li>11. Demonstrate the ability to navigate in a straight line for 500 meters with no more than four (4) degrees of deviation.</li> <li>12. Demonstrate the ability to navigate between four (4) selected points in your primary search area for a minimum distance of 1 kilometer with no more than 40 meters of deviation from the final point.</li> <li>13. Demonstrate the ability to navigate around an obstacle blocking your selected path while staying on course.</li> <li>14. Demonstrate the ability to determine distance traveled by using their 100 meter pace.</li> <li>15. Demonstrate the ability to navigate in a straight line for 500 meters with no more than four (4) degrees of deviation at night.</li> </ol>

**GPS OPERATION**

Requirement	Field - Performance Criteria for All Types
<p>Through Field Performance Evaluation, personnel will demonstrate the ability to:</p> <p><i>(These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated)</i></p>	<ol style="list-style-type: none"> <li>1. Change the batteries of a GPS receiver.</li> <li>2. Turn on a GPS and acquire a coordinate that accurately represents their location.</li> <li>3. Change coordinate system setting within a GPS unit.</li> <li>4. Change the datum setting within a GPS unit</li> <li>5. Ability to switch between kilometers/meters and miles/feet on their GPS.</li> <li>6. Set their GPS for true north.</li> </ol>

Requirement	Field - Performance Criteria Types 1 - 3
<p>Through Field Performance Evaluation, personnel will demonstrate the ability to:</p> <p><i>(These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated) <u>Numbers 7 thru 9 - Do Not Apply to type 4 personnel</u></i></p>	<ol style="list-style-type: none"> <li>7. Mark, edit, view and delete a waypoint in a GPS receiver.</li> <li>8. Clear, start, and save a GPS track that records your movement over at least 500 meters.</li> <li>9. Create a route with at least four legs in a GPS unit and follow it to its end.</li> </ol>



**GPS OPERATION CONTINUED**

Requirement	Field - Performance Criteria Types 1 and 2
<p><b>Through Field Performance Evaluation, personnel will demonstrate the ability to:</b></p> <p><i>(These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated) ) <u>Numbers 10 thru 12 - Do Not Apply to Type 3 or 4 personnel</u></i></p>	<ol style="list-style-type: none"> <li>10. Use a GPS unit to convert a coordinate from UTM to lat long.</li> <li>11. Use a GPS unit to convert a coordinate from lat long to UTM.</li> <li>12. Use a GPS to triangulate your position on a map with no coordinate system using two known points (with their coordinates) on the map as waypoints.</li> </ol>

**LAW ENFORCEMENT SUPPORT SKILLS**

Requirement	Classroom - Performance Criteria for All Types
<p><b>Through Written Evaluation, personnel will demonstrate the knowledge of:</b></p>	<ol style="list-style-type: none"> <li>1. What to do when evidence of a crime or a deceased person is located.</li> <li>2. Techniques used to secure a crime scene.</li> <li>3. Who is allowed into a crime scene, and who has control of the scene.</li> <li>4. When a searcher may pick up or disturb possible evidence.</li> <li>5. What types of search methods are used for a crime scene, and the reasons they are used.</li> </ol>

**SEARCH ORGANIZATION & MANAGEMENT**

Requirement	Classroom - Performance Criteria for All Types
<p><b>Through Written Evaluation, personnel will demonstrate the knowledge of:</b></p>	<ol style="list-style-type: none"> <li>1. The ground team’s position in the ICS structure and organization chart.</li> <li>2. The five functional sections of the ICS structure.</li> <li>3. The purpose of the assignment briefing and debriefing.</li> <li>4. The function of check in and out procedures</li> <li>5. Understand the role and functions provided by Public Information Officer (PIO) in reference to a SAR mission, and the public, news media, and other agencies.</li> </ol>

**SEARCH TECHNIQUES**

Requirement	Classroom - Performance Criteria for All Types
<p><b>Through Written Evaluation, personnel will demonstrate the knowledge of:</b></p>	<ol style="list-style-type: none"> <li>1. The elements of the three basic types of ground search techniques</li> <li>2. Three passive &amp; active search methods.</li> <li>3. The importance of staying on assigned task as given by Incident Command.</li> <li>4. The elements of a sound sweep search.</li> <li>5. The elements of “Critical Separation”.</li> <li>6. The advantages and disadvantages of searching at night.</li> <li>7. Techniques for visual detection and how physiology and perception affect detection</li> <li>8. The concept and use of;               <ul style="list-style-type: none"> <li>•POA (probability of area)</li> <li>•POD (probability of detection)</li> <li>•IPP (initial planning point)</li> <li>•LKP (last known position/point)</li> <li>•PLS (point last seen)</li> </ul> </li> </ol>

**SEARCH TECHNIQUES CONTINUED**

Requirement	Field - Performance Criteria Types 1 - 3
<p><b>Through Field Performance Evaluation, personnel will demonstrate the ability to:</b></p> <p><i>(These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated)</i></p> <p><u>Numbers 1 – 2 Do Not Apply to Type 4 personnel</u></p>	<ol style="list-style-type: none"> <li>1. To determine searcher spacing in at least two different environments, i.e. wooded and open areas.</li> <li>2. Demonstrate effective searching;                             <ul style="list-style-type: none"> <li>• Establish a search route in a wooded environment that is at least 50 yards long. Personnel must estimate their sweep width (for an adult size target). In this search area, randomly place one adult prone subject and between 9 and 12 clothing objects of various size. Given 10 min to search the area, the personnel must locate the adult, and a reasonable percentage of the other items (30%-50%).</li> <li>• Establish a search area in a grassy field (approximately 1-2 inch high grass), about 14x50 feet in size. In this search area, randomly place 20 small items such as shell casings. Given 10 min to search, the personnel is expected to find 15 items.</li> </ul> </li> </ol>

Requirement	Field - Performance Criteria Types 1 and 2
<p><b>Through Field Performance Evaluation, personnel will demonstrate the ability to:</b></p> <p><i>(These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated)</i></p> <p><u>Numbers 3 - 5 Do Not Apply to Type 3 or 4 personnel</u></p>	<ol style="list-style-type: none"> <li>3. Assess the features of a search area such as terrain, vegetation, and boundaries and determine a reasonable search tactic for that area to achieve their assigned goals.</li> <li>4. Act as a team leader for a night sound sweep</li> <li>5. Act as a team leader for open and closed grid searches in both day and night conditions</li> </ol>

**HELICOPTER SAFETY**

Requirement	Classroom - Performance Criteria for All Types
<p>Through Written Evaluation, personnel will demonstrate the knowledge of:</p>	<ol style="list-style-type: none"> <li>1. Define the basic requirements for a landing zone (LZ) or heliport.</li> <li>2. Define five (5) basic general helicopter safety elements.</li> <li>3. When and how to properly approach and depart a helicopter.</li> </ol>

**CLUE AWARENESS AND IDENTIFICATION**

Requirement	Classroom - Performance Criteria for All Types
<p>Through Written Evaluation, personnel will demonstrate the knowledge of:</p>	<ol style="list-style-type: none"> <li>1. Identify, protect, and communicate clues common to a search and rescue operation.</li> <li>2. Understand the definition of “sign”, the discoverable physical evidence of the passage or presence of a person.</li> <li>3. Recognize sign and how to protect it from damage.</li> <li>4. The reasons why searchers look for clues as well as the subject (list at least 4).</li> <li>5. What to do when a clue is located.</li> </ol>

Requirement	Field - Performance Criteria Types 1 - 3
<p>Through Field Performance Evaluation, personnel will demonstrate the ability to:</p> <p><i>These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated)</i>  <u>Does Not Apply to Type 4 personnel</u></p>	<ol style="list-style-type: none"> <li>1. Identify, mark and preserve tracks and sign.</li> <li>2. Properly use a tracking stick.</li> <li>3. Describe or sketch a shoe print and describe the tread pattern, size and direction of travel.</li> <li>4. Locate and identify color change, flattening, and shine left by a shoe track.</li> <li>5. Preserve and document potential clues/evidence in a given search area.</li> </ol>

**SUBJECT & SEARCHER FIRST AID**

Requirement	Classroom - Performance Criteria for All Types
<p><b>Through Written Evaluation, personnel will demonstrate the knowledge of:</b></p>	<ol style="list-style-type: none"> <li>1. The symptoms, treatment, and methods of prevention of hypothermia.</li> <li>2. The symptoms, treatment, and methods of prevention of hyperthermia.</li> <li>3. The symptoms, treatment, and methods of prevention of frostbite.</li> <li>4. The five ways in which heat is transferred away from the body.</li> <li>5. The five ways heat is transferred to the body.</li> <li>6. The importance of hydration in hot and cold climates.</li> <li>7. Methods to control bleeding.</li> <li>8. Methods of limb immobilization (splinting).</li> </ol>

Requirement	Field - Performance Criteria Types 1 - 3
<p><b>Through Field Performance Evaluation, personnel will demonstrate the ability to:</b></p> <p><i>These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated) <u>Does Not Apply to Type 4 personnel</u></i></p>	<ol style="list-style-type: none"> <li>1. Properly assess patient’s medical status within the scope of training.</li> <li>2. Perform measures to control bleeding.</li> <li>3. Perform immobilization techniques to include; spinal, neck and appendages.</li> <li>4. Prepare a subject for litter evacuation.</li> </ol>

## RESCUE TECHNIQUES

Requirement	Field - Performance Criteria Types 1 - 3
<p><b>Through Field Performance Evaluation, personnel will demonstrate the ability to:</b></p> <p><i>These Field Performance Criteria – Must be performed in a field setting – Proficiency Must Be Demonstrated)</i>  <u>Does Not Apply to Type 4 personnel</u></p>	<ol style="list-style-type: none"> <li>1. Assess the area for safety and safe methods to access a found subject or injured team member.</li> <li>2. Properly assess a subject's status (medical, location, readiness for transport) within their scope of training.</li> <li>3. Properly prepare a subject for a litter.</li> <li>4. Secure the subject into a litter and transport the litter safely as a member of a litter team. The litter team will transport the loaded litter over, under and around obstacles for a minimum of ¼ mile.</li> <li>5. Tie (5) of the (9) commonly known rescue knots listed below: <ul style="list-style-type: none"> <li>• Bowline</li> <li>• Overhand</li> <li>• Water</li> <li>• Figure 8</li> <li>• Figure 8 on a Bight</li> <li>• Figure 8 Follow-through</li> <li>• Double Fisherman's</li> <li>• Three-wrap prusik hitch</li> <li>• Munter Hitch</li> </ul> </li> </ol>

## SEARCHER SAFETY

Requirement	Classroom - Performance Criteria for All Types
<p><b>Through Written Evaluation, personnel will demonstrate the knowledge of:</b></p>	<ol style="list-style-type: none"> <li>1. Common weather hazards for the region that they typically operate.</li> <li>2. Situational awareness of a defined search area or areas.</li> <li>3. Avalanche/Winter safety awareness.</li> <li>4. Water safety and awareness.</li> <li>5. Searcher fatigue</li> <li>6. Identify searcher safety priorities.</li> </ol>

**OR-ST-SAR-1.5 Appendix A – Additional First Aid and Medical Accreditation Programs  
Include but are not limited to:**

- First Aid / Emergency Medical – Programs Recognized
  - Similar curriculums may be substituted.**
  - First Aid American Red Cross (First Aid, CPR, AED, BBP)
  - First Aid American Heart Association (First Aid, CPR, AED, BBP)
  - American Red Cross – Wilderness First Aid
  - Advanced First Aid
  - Wilderness EMT
  - Wilderness First Responder (Approved Provider)
  - Wilderness EMT (Approved Provider)
  - Outdoor Emergency Care – National Ski Patrol
  - Advanced Life Support Protocols
    - Oxygen and other respiratory interventions
    - Epinephrine administration
    - Cardiac medications
    - Other Medication
- State Certified EMS Providers
  - First Responder / Emergency Medical Responder
  - EMT – B
  - Paramedic
- Note First Aid (FA), Blood Borne Pathogen (BBP), and Automatic Electronic Defibrillator (AED) classes need to be from a Oregon State recognized, certified, and credentialed organization and/or provider.
- Medical personnel such as Doctors, Registered Nurses, Physicians Assistants etc. who maintain current first aid, CPR, AED and blood borne pathogens training as a condition of their employment are not required to take additional training to meet the SAR standard as long as their status can be verified.