



Position Qualification for Mass Search and Rescue Operations
Search and Rescue

LAND SEARCH AND RESCUE TECHNICIAN

RESOURCE CATEGORY	Search and Rescue
RESOURCE KIND	Personnel
OVERALL FUNCTION	The Land Search and Rescue (SAR) Technician performs land search, rescue, and recovery
COMPOSITION AND ORDERING SPECIFICATIONS	<ol style="list-style-type: none"> 1. This position can be ordered as a single resource or in conjunction with a NIMS typed team (Land Search and Rescue Team). 2. Discuss logistics for deploying this position, such as working conditions, length of deployment, security, lodging, transportation, and meals, prior to deployment

Each type of resource builds on the qualifications of the type below it. For example, Type 1 qualifications include the qualifications in Type 2, plus an increase in capability. Type 1 is the highest qualification level.

COMPONENT	TYPE 1	TYPE 2	NOTES
DESCRIPTION	<p>Same as Type 2, PLUS: Performs search, rescue, and recovery in:</p> <ol style="list-style-type: none"> 1. Wilderness environments: Areas beyond a trailhead or eyesight distance of a backcountry two-wheel drive (2WD) road (approximately 200 feet) OR anywhere compromised local infrastructure experiences wilderness-type conditions, such as remoteness from public infrastructure support services; poor to no medical services or potable water; or compromised public safety buildings or communications systems 2. Weather conditions including snow flurries and slippery ice surfaces 3. YDS classes 1-3 terrain 	<p>The National Incident Management System (NIMS) Type 2 Land SAR Technician:</p> <ol style="list-style-type: none"> 1. Reports to the Land SAR Team Leader 2. Performs search, rescue, and recovery in: <ol style="list-style-type: none"> a. Land environments: Areas located within, or immediately next to, urban boundaries, no further than 0.5 miles (0.8 kilometers) from a road readily accessible by emergency personnel, and which may include parks, wild areas, private, state, and municipal lands b. Weather conditions not including snow or slippery ice conditions c. Yosemite Decimal System (YDS) classes 1-2 terrain 3. Operates within the Incident Command System (ICS) in an entry level position on a Land SAR Team 4. Provides first aid and Cardiopulmonary Resuscitation (CPR) 5. Provides: <ol style="list-style-type: none"> a. Safety of self and team members b. Basic medical care of self, team members, and survivors c. Simple decontamination of self and team members d. Basic ground support capability for helicopter operations 6. Coordinates with ground vehicles, watercraft, and aircraft for support, transportation, and evacuation 7. Operates in environments with and without infrastructure, including those affected by disasters and terrorism; with compromised access to roadways, utilities, and transportation; and with limited availability of shelter, food, and water 	Not Specified



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COMPONENT	TYPE 1	TYPE 2	NOTES
EDUCATION	Not Specified	Not Specified	Not Specified
TRAINING	<p>Same as Type 2, PLUS:</p> <ol style="list-style-type: none"> 1. Completion of an Authority Having Jurisdiction (AHJ)-validated training program that meets or exceeds the recommendations from National Fire Protection Association (NFPA) or ASTM International (ASTM) specific to the following Land SAR Technician position-specific key skills and aptitudes: 2. Hazard awareness, survival, navigation and search, rescue and recovery operations in: <ol style="list-style-type: none"> a. YDS classes 1-3 terrain b. Weather conditions including snow flurries and minimally slippery ice surfaces c. Wilderness - low mountain interface training 	<p>Completion of the following:</p> <ol style="list-style-type: none"> 1. IS-100: Introduction to Incident Command System, ICS-100 2. IS-200: Basic Incident Command System for Initial Response, ICS-200 3. IS-700: National Incident Management System, An Introduction 4. IS-800: National Response Framework, An Introduction 5. Basic Aviation Safety: Interagency Aviation Training (IAT) A-100 or equivalent 6. Training in accordance with Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Materials Awareness 7. Training in accordance with OSHA 29 CFR Part 1910.1030: Bloodborne Pathogens <p>Completion of an Authority Having Jurisdiction (AHJ)-validated training program that meets or exceeds the recommendations from National Fire Protection Association (NFPA) or ASTM International (ASTM) specific to the following Land SAR Technician position-specific key skills and aptitudes:</p> <ol style="list-style-type: none"> 1. Basic land SAR environments training 2. YDS classes 1-2 terrain training, including the following: <ol style="list-style-type: none"> a. General SAR Hazard Awareness b. Navigation c. Survival d. Search, rescue, and recovery operations, including carryout to ground or air transportation e. All seasons weather, not including snow or slippery ice conditions f. Land - wilderness interface training 3. Basic first aid and cardiopulmonary resuscitation (CPR) training or equivalent, including automated external defibrillator (AED) 4. Use, care, inspection, and maintenance of all related personal protective equipment (PPE), tools, and devices, training specific to this position type 	<p>YDS of classifying walking, hiking, and climbing terrain:</p> <ol style="list-style-type: none"> 1. Class 1: Walking with a low chance of injury. 2. Class 2: Simple scrambling, with the possibility of occasional hand use and little potential danger. 3. Class 3: Scrambling on an increased angle with increased exposure and necessary handholds. Falls could easily be fatal 4. Class 4: Simple climbing, with exposure and rope use. Falls may well be fatal. 5. Class 5: Technical rock climbing using a rope, specialized equipment and training to protect against a fall. Un-roped falls can result in severe injury or death. 6. Class 6: Rock/Ice so shear and smooth that it is unclimbable without the use of aid, such as artificial and other devices: bolts, wedges, rope ladders, etc.



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COMPONENT	TYPE 1	TYPE 2	NOTES
EXPERIENCE	Same as Type 2	<p>Knowledge, Skills, and Abilities:</p> <ol style="list-style-type: none"> 1. Knowledge of land SAR and associated hazards 2. Knowledge of the capabilities of canine search 3. Understanding of SAR procedures in the land environment during day and night operations 4. Ability to identify and use appropriate PPE 5. Ability to carry out land SAR <p>Experience: Completion of a Land SAR Technician Position Task Book (PTB) or equivalent Authority Having Jurisdiction (AHJ) documentation</p>	Not Specified
PHYSICAL/MEDICAL FITNESS	Same as Type 2	<ol style="list-style-type: none"> 1. Arduous 2. Meets minimum physical fitness standards, in accordance with the AHJ's Job Related Physical Ability Test (JRPAT) 3. Maintains AHJ-determined medical fitness suitable for the environment and job requirements 4. Maintains immunizations in accordance with the U.S. Department of Health and Human Services Centers for Disease Control's recommended adult immunization schedule for the United States of America 	The NIMS Guideline for the National Qualification System (NQS) defines Physical/Medical Fitness levels for NIMS positions
CURRENCY	Same as Type 2	<ol style="list-style-type: none"> 1. Annual refresher of related SAR skills and abilities in land environments 2. Functions in this position during an operational incident, planned event, exercise, drill, or simulation once every three years or as the AHJ determines 3. Background checks as applicable law permits or requires 	Provider must carry out and use any background checks as applicable law specifies. This may include a background check completed within past 12 months; sex-offender registry check; and a local, state, and a local, state, and national criminal history.
PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS	Same as Type 2	Not Specified	Not Specified



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NOTES

Nationally typed resources represent the minimum criteria for the associated category.

REFERENCES

1. FEMA, NIMS 508: Land Search and Rescue Team
2. FEMA, NIMS 509: Land Search and Rescue Team Leader
3. FEMA, National Incident Management System (NIMS), October 2017
4. FEMA, NIMS Guideline for the National Qualification System (NQS), November 2017
5. ASTM International (ASTM) F2209-2014: Standard Guide for Training of Level I Land Search Team Member, 2014
6. ASTM F2751-2009: Standard Guide for Training of Support Level Land Rescue Team Member (LRT-Support) Member, 2009
7. ASTM F2890-2012: Standard Guide for Hazard Awareness for Search and Rescue Personnel, 2012
8. ASTM WK45629: Training of Non-Wilderness Land Search Team Member
9. Mountain Rescue Association (MRA), Policy 105.1: National Compliancy Guideline, 2006
10. National Fire Protection Association (NFPA) 1006: Standard for Technical Rescuer Professional Qualifications, 2013
11. National Interagency Aviation Committee (NIAC), Interagency Aviation Training Subcommittee, Interagency Aviation Training (IAT) Guide, 2014
12. National Park Service (NPS) RM-59: National Park Service, Search and Rescue Reference Manual, 2011
13. Yosemite Decimal System (YDS), Classifications for Terrain
14. Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Materials Awareness, latest edition adopted
15. OSHA 29 CFR Part 1910.1030: Bloodborne Pathogens, latest edition adopted