

## LAND SEARCH AND RESCUE TEAM

<b>DESCRIPTION</b>	A Land Search and Rescue (SAR) Team conducts search, rescue, and recovery in one or more of the environments of land or wilderness, in response to natural and human-caused events
<b>RESOURCE CATEGORY</b>	Search and Rescue
<b>RESOURCE KIND</b>	Team
<b>OVERALL FUNCTION</b>	<p>The Land SAR Team:</p> <ol style="list-style-type: none"> <li>Conducts search, rescue, and recovery in land and wilderness environments through use of aircraft and ground vehicles for support, transportation, and evacuation in non-technical terrain <ol style="list-style-type: none"> <li>Land: Area 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</li> <li>Wilderness: Areas beyond a trailhead or eyesight distance of a backcountry two-wheel drive (2WD) road (approximately 200 feet) OR anywhere the local infrastructure has been compromised enough to experience 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</li> </ol> </li> <li>Provides first aid and Cardiopulmonary Resuscitation (CPR)</li> <li>Operates within the Incident Command System (ICS)</li> <li>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</li> <li>Conducts primary rescue of humans and animals and delivers them to safe refuge, but is not intended to perform secondary transport of rescued humans and animals to shelters or other locations</li> </ol>
<b>COMPOSITION AND ORDERING SPECIFICATIONS</b>	<ol style="list-style-type: none"> <li>Discuss the following items prior to deployment: <ol style="list-style-type: none"> <li>Intra-team communications, such as programmable inter-operable communications with Command, General Staff, and other supporting resources</li> <li>Presence of contaminated environments and need for related personal protective equipment (PPE), respiratory protection, clothing, and equipment</li> <li>Security and force protection needed upon arrival</li> <li>Logistics support, such as lodging, transportation, and meals for sustained operations beyond 72 hours</li> </ol> </li> <li>This team typically works 12 hours per shift, is self-sustainable for 72 hours (beyond need for security and force protection), and is deployable for up to 14 days</li> <li>The requestor should specify additional specialized equipment, such as hardware, software, ropes, rescue, or evacuation equipment</li> <li>The requestor should specify the mission location and operational environment, such as land, wilderness, or hazardous materials contamination</li> <li>The requestor should specify the type of animal rescue such as livestock and equine, companion, avian, non-domestic, and exotic animals</li> <li>The requestor should acquire additional specialized personnel such as advanced medical, Emergency Medical Technician (EMT), paramedic, and canine SAR personnel separately</li> <li>The requestor should acquire secondary land or air transport of rescues separately</li> <li>The requestor should specify or separately acquire additional vehicles, trailers, equipment, or supplies such as fuel</li> <li>The requestor should consider the need for additional capabilities to address hazards that may be encountered during operations in SAR environments, which may be immediately dangerous to life and health (IDLH), as ASTM International (ASTM) F2890 Standard Guide for Hazard Awareness for Search and Rescue Personnel defines</li> <li>The Authority Having Jurisdiction (AHJ) may require additional capability-based training or certification, such as those related to cave, mine, water, hazardous materials, or higher altitudes</li> </ol>

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.

## Resource Typing Definition for Mass Search and Rescue Operations Search and Rescue

COMPONENT	TYPE 1	TYPE 2	NOTES
<b>CAPABILITY PER TEAM ENVIRONMENT</b>	Wilderness	Land	Not Specified
<b>CAPABILITY PER TEAM OPERATIONS</b>	Same as Type 2, PLUS: Performs search, rescue, and recovery in: 1. Wilderness environments 2. Weather conditions including snow flurries and slippery ice surfaces 3. YDS classes 1-3 terrain	1. Performs search, rescue, and recovery in: a. Land environments b. Weather conditions not including snow or slippery ice conditions c. Yosemite Decimal System (YDS) classes 1-2 terrain 2. May work with Canine Search Teams 3. First aid to include cardiopulmonary resuscitation (CPR), automated external defibrillator (AED) or medical responder care, if certified 4. Basic rope rescue	YDS classified terrains as classes 1-6: 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 sheer and smooth that it is unclimbable without the use of aid, such as artificial and other devices: bolts, wedges, rope ladders, etc.
<b>EQUIPMENT PER TEAM GENERAL</b>	Same as Type 2	Equipment consistent with this resource's capabilities and needs, that meets or exceeds ASTM International (ASTM) F2209 and Mountain Rescue Association (MRA) 105.1	Not Specified
<b>EQUIPMENT PER TEAM MEMBER COMMUNICATIONS</b>	Not Applicable	1. Portable and mobile intra-team communications 2. Portable radio with ground to air capability 3. Charger for devices 4. Handheld Global Positioning System (GPS) unit 5. Two-way handheld radio 6. Mobile phone	1. Intra-team and inter-team communications are consistent with National Interoperability Field Operations Guide (NIFOG). 2. Consider alternate forms of communication, such as satellite phones, based on the mission assignment and team needs.
<b>EQUIPMENT PER TEAM MEMBER PPE</b>	Same as Type 2	Minimum PPE consistent with this resource's capabilities and needs, that meets or exceeds ASTM 2209	Not Specified
<b>EQUIPMENT PER TEAM VICTIM EXTRICATION SYSTEM</b>	1. Litter basket or similar 2. Patient tie in system	Not Specified	Not Specified
<b>PERSONNEL PER TEAM MANAGEMENT AND OVERSIGHT</b>	1 - NIMS Type 1 Land Strike Team/Task Force Leader 2 - NIMS Type 1 Land SAR Team Leader	1 - National Incident Management System (NIMS) Type 1 Land Strike Team/Task Force Leader 1 - NIMS Type 2 Land SAR Team Leader	NIMS Type 1 Land SAR Team/Task Force Leader should have experience in the deployment area's environment.
<b>PERSONNEL PER TEAM MINIMUM</b>	9	6	Not Specified

Superseded

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COMPONENT	TYPE 1	TYPE 2	NOTES
<b>PERSONNEL PER TEAM OPERATIONS AND SUPPORT</b>	6 - NIMS Type 1 Land SAR Technician	4 - NIMS Type 2 Land SAR Technician	Requestor may need to order a NIMS Type 1 EMT or Paramedic as a separate resource to supplement the team based on the incident need.

**Superseded**

## NOTES

Nationally typed resources represent the minimum criteria for the associated component and capability.

## REFERENCES

1. FEMA, NIMS 509: Emergency Medical Technician
2. FEMA, NIMS 509: Paramedic
3. FEMA, NIMS 509: Land Search and Rescue Strike Team/Task Force Leader
4. FEMA, NIMS 509: Land Search and Rescue Team Leader
5. FEMA, NIMS 509: Land Search and Rescue Technician
6. ASTM International (ASTM) F2209-2014: Standard Guide for Training of Land Search Team Member, 2012
7. ASTM WK45629: Training of Non-Wilderness Land Search Team Member
8. ASTM F2890-2012: Standard Guide for Hazard Awareness for Search and Rescue Personnel, 2012
9. Mountain Rescue Association (MRA), Policy 105.1: National Compliancy Guideline, 2006
10. U.S. Department of Homeland Security, Office of Emergency Communications (OEC), National Interoperability Field Operations Guide (NIFOG), v. 1.5, 2014
11. Yosemite Decimal System (YDS), Classifications for Terrain
12. Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Waste Operations and Emergency Response, latest edition adopted

Superseded