



Position Qualification for Mass Search and Rescue Operations
Search and Rescue

MINE SEARCH AND RESCUE TEAM LEADER

RESOURCE CATEGORY	Search and Rescue
RESOURCE KIND	Personnel
OVERALL FUNCTION	The Mine Search and Rescue (SAR) Team Leader leads a Mine SAR team performing search, rescue, and recovery in various mine environments
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 (Mine 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 deployment3. Appropriate endorsements may be necessary for SAR operations for specific types of mines as defined by MSHA (such as animal rescue, submerged environments)

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.



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COMPONENT	TYPE 1	TYPE 2	NOTES
DESCRIPTION	Same as Type 2, PLUS: 1. Leads a NIMS Type 1 Mine SAR team performing search, rescue, and recovery in active mine environments 2. Endorsed for specific active mine types in accordance with the U.S. Department of Labor's Mine Safety and Health Administration (MSHA)	The Mine SAR Team Leader: 1. Leads National Incident Management System (NIMS) Type 2 Mine SAR teams performing search, rescue, and recovery in inactive and abandoned mine environments 2. Provides general leadership, direct supervision, wellness, and safety of the team, team members, and other single resources 3. Provides first aid 4. Operates within the Incident Command System (ICS) in a specialized position within the Mine SAR Team 5. 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 6. Provides: 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 7. Coordinates with ground vehicles, watercraft, and aircraft for support, transportation, and evacuation 8. Conducts initial response to an incident, including: a. Size up and initial report b. Rescue vs. recovery assessment c. Pre-planning, incident action planning, and emergency response planning	Not Specified
EDUCATION	Not Specified	Not Specified	Not Specified



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COMPONENT	TYPE 1	TYPE 2	NOTES
<p>TRAINING</p>	<p>Same as Type 2, PLUS: NIMS Type 1 Mine SAR Technician training</p>	<p>Completion of the following:</p> <ol style="list-style-type: none"> 1. NIMS Type 2 Mine SAR Technician training 2. NIMS Type 2 Land SAR Team Leader training 3. All Hazards Team Leader level training 4. Authority Having Jurisdiction (AHJ) Operational Leadership Training 5. OSHA based coursework on: <ol style="list-style-type: none"> a. Annual hazardous materials first responder awareness b. Federal regulations related to environment for this type c. State and local safety and health regulations <p>Completion of awareness-level training regarding hazards and safety in and around:</p> <ol style="list-style-type: none"> 1. Active mines 2. Submerged environments, including stillwater, swiftwater, and dive operations 3. Other various underground and confined space environments 4. Related hazard and hazardous materials guides and references <p>AHJ-verified completion of training that meets or exceeds the National Fire Protection Agency (NFPA) or ASTM International (ASTM) for the following:</p> <ol style="list-style-type: none"> 1. Initial response to an incident including: <ol style="list-style-type: none"> a. Size up and initial report b. Rescue vs. recovery assessment c. Pre-planning, incident action planning, and emergency response planning 2. Fire and explosions in the environment, mitigation, and suppression, including extinguishment methods, equipment, and post-fire and post-explosion safety and actions 3. Personnel accountability and tracking systems for surface and entry/exit, including use of entry and exit checklists 4. Environment stability and collapse hazards and mitigation 	<ol style="list-style-type: none"> 1. Operational leadership training follows these guidelines, or those of the AHJ: National Park Service (NPS) or United States Coast Guard (USCG) Operational Leadership training (current edition); National Wildfire Coordinating Group (NWCG) L-180: Human Factors in the Wildland Fire Service or discipline equivalent; and NWCG L-280: Followership to Leadership or discipline equivalent. 2. The AHJ may require additional training capabilities and endorsements.



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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 the Emergency Management Assistance Compact (EMAC) deployment process 2. Knowledge of mine rescue and associated hazards 3. Knowledge of canine search capabilities 4. Understanding of rescue procedures in the cave environment during day and night operations 5. Complies with general standards of technical rescue 6. Carries out the following: <ol style="list-style-type: none"> a. Technical rescue operations b. Rope rescue c. Cave SAR d. Confined SAR e. Machinery rescue f. Trench and excavation SAR <p>Experience:</p> <ol style="list-style-type: none"> 1. Scene management and dynamic assessment of risk 2. Cave SAR techniques 3. Identification of hazards, including potential operating environments 4. Completion of the Mine SAR Team Leader Position Task Book (PTB) or equivalent AHJ documentation 	NFPA 1006: Standard for Technical Rescuer Professional Qualifications and NFPA 1670: Standard on Operations and Training for Technical Search and Rescue Incidents address knowledge, skills, and abilities standards.
PHYSICAL/MEDICAL FITNESS	Same as Type 2	<ol style="list-style-type: none"> 1. Arduous 2. Meets minimum physical fitness and swimming standards, in accordance with the AHJ's Job Related Physical Ability Test (JRPAT) 3. Maintains AHJ-determined physical fitness standards suitable for the environment and typing 4. Maintains immunizations in accordance with the U.S. Department of Health and Human Services Centers for Disease Control and Prevention 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, PLUS: This position maintains currency for the NIMS Type 1 Mine SAR Technician	<ol style="list-style-type: none"> 1. Annual refresher of related SAR skills and abilities in mine environments 2. Functions in this position during an operational incident, planned event, exercise, drill, or simulation once every three years 3. Maintains currency for the NIMS Type 2 Mine SAR Technician 4. 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.



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COMPONENT	TYPE 1	TYPE 2	NOTES
PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS	Not Specified	1. Certification or completion of mine SAR training that relates to the job standards 2. AHJ-required BLS-level medical care certification or recertification	The AHJ determines the emergency medical certifications the team leader needs to meet the minimum criteria, which can include first aid, cardiopulmonary resuscitation (CPR), and BLS.



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NOTES

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

REFERENCES

1. FEMA, NIMS 508: Mine Search and Rescue Team
2. FEMA, NIMS 509: Mine Search and Rescue Technician
3. FEMA, National Incident Management System (NIMS), October 2017
4. FEMA, NIMS Guideline for the National Qualification System (NQS), November 2017
5. ASTM International F2890-12: Standard Guide for Hazard Awareness for Search and Rescue Personnel, 2012
6. National Fire Protection Association (NFPA) 1006: Standard for Technical Rescuer Professional Qualifications, 2013
7. NFPA 1670: Standard on Operations and Training for Technical Search and Rescue Incidents, 2014
8. Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Waste Operations and Emergency Response
9. OSHA 29 CFR Part 1910.134: Respiratory Protection
10. OSHA 29 CFR Part 1910.146: Permit-Required Confined Spaces
11. OSHA 29 CFR Part 1910.1030: Bloodborne Pathogens
12. Mine Safety and Health Administration (MSHA) 30 CFR Part 23: Telephones and Signaling Devices
13. MSHA, 30 CFR Part 49: Mine Rescue Teams