

## HAZARDOUS MATERIALS TECHNICIAN

<b>RESOURCE CATEGORY</b>	Fire/Hazardous Materials
<b>RESOURCE KIND</b>	Personnel
<b>OVERALL FUNCTION</b>	The Hazardous Materials Technician responds to hazardous materials (HAZMAT) incidents, including those involving Weapons of Mass Destruction (WMD). When serving as part of a response team, the Hazardous Materials Technician may also function in one or more of the following roles, as necessary: <ol style="list-style-type: none"> <li>1. Team Leader</li> <li>2. Assistant Safety Officer - Hazardous Materials</li> <li>3. Hazardous Materials Technical Reference Specialist</li> </ol>
<b>COMPOSITION AND ORDERING SPECIFICATIONS</b>	<ol style="list-style-type: none"> <li>1. This position can be ordered as a single resource or in conjunction with a NIMS typed team (Hazardous Materials Response Team).</li> <li>2. Discuss logistics for deploying this position, such as security, lodging, transportation, and meals, prior to deployment</li> <li>3. This position typically works up to 12 hours per shift, is self-sustainable for 72 hours, and is deployable for up to 14 days</li> <li>4. Requestor and provider discuss necessary mission-specific capabilities, such as tank car, railcar, cargo tank trucks, intermodal tanks, marine tanks, non-tank vessels, radioactive materials, and bulk storage for flammable liquids and gases</li> <li>5. Requestor and provider discuss team oversight and incorporation of this team into the larger response structure</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.

COMPONENT	SINGLE TYPE	NOTES
<b>DESCRIPTION</b>	The Hazardous Materials Technician: <ol style="list-style-type: none"> <li>1. Responds to HAZMAT incidents, including those involving WMD</li> <li>2. Uses a risk-based response process to analyze problems</li> <li>3. Selects applicable detection and monitoring equipment, Personal Protective Equipment (PPE), decontamination procedures, and control equipment</li> </ol>	When part of a response team, this position may also function in one or more of the following roles, as necessary, in accordance with National Fire Protection Association (NFPA) 472: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents and NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications <ol style="list-style-type: none"> <li>1. Team Leader</li> <li>2. Assistant Safety Officer - Hazardous Materials</li> <li>3. Hazardous Materials Technical Reference Specialist</li> </ol>
<b>EDUCATION</b>	Not Specified	Not Specified
<b>TRAINING</b>	Completion of the following: <ol style="list-style-type: none"> <li>1. IS-100: Introduction to the Incident Command System, ICS-100</li> <li>2. IS-200: Basic Incident Command System for Initial Response, ICS-200</li> <li>3. IS-700: National Incident Management System, An Introduction</li> <li>4. IS-800: National Response Framework, An Introduction</li> <li>5. Training in accordance with Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Materials Technician Level, and NFPA 472: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents</li> <li>6. Training in accordance with OSHA 29 CFR Part 1910.134(k): Respiratory Protection</li> </ol>	Technicians may complete additional training in HAZMAT specialties in accordance with OSHA 29 CFR Part 1910.120(q)(6)(iv) or NFPA 472, such as one or more of the following specialty areas: <ol style="list-style-type: none"> <li>1. Cargo tank</li> <li>2. Tank car</li> <li>3. Marine tank and non-tank vessel</li> <li>4. Intermodal tank</li> <li>5. Flammable gas bulk storage</li> <li>6. Flammable liquid bulk storage</li> <li>7. Railcar</li> <li>8. Radioactive materials</li> <li>9. Clandestine manufacturing labs</li> <li>10. Explosive manufacturing labs</li> </ol>

Superseded



Position Qualification for Environmental Response/Health and Safety  
Fire/Hazardous Materials

COMPONENT	SINGLE TYPE	NOTES
<b>EXPERIENCE</b>	<p>Knowledge, Skills, and Abilities:</p> <ol style="list-style-type: none"><li>1. Knowledge of relevant terminology and behavior</li><li>2. Ability to perform advanced hazard and risk assessment</li><li>3. Ability to perform advanced control, containment, and confinement techniques</li><li>4. Ability to select and use specialized PPE</li><li>5. Ability to implement decontamination procedures</li><li>6. Knowledge of radiological dosimeter tracking and recording procedures</li></ol> <p>Experience:</p> <p>One year of work experience in HAZMAT response</p>	Hazardous Materials Technicians serving as Team Leaders, Assistant Safety Officers, or Technical Reference Specialists should have prior experience in those roles.
<b>PHYSICAL/MEDICAL FITNESS</b>	<ol style="list-style-type: none"><li>1. Performs duties under moderate circumstances characterized by working consecutive 12-hour days under physical and emotional stress for sustained periods of time</li><li>2. Maintains compliance with OSHA 29 CFR Part 1910.120(f)(3): Frequency of medical examinations and consultations, and OSHA 29 CFR Part 1910.134: Respiratory Protection</li><li>3. Maintains Authority Having Jurisdiction (AHJ)-determined physical fitness standards suitable for the environment and typing; for example, the NFPA 1582: Standard on Comprehensive Occupational Medical Program for Fire Departments and the National Wildfire Coordinating Group (NWCG) Fitness and Work Capacity meet or exceed this physical fitness standard</li></ol>	Not Specified
<b>CURRENCY</b>	<ol style="list-style-type: none"><li>1. Functions in this position during an operational incident, exercise, drill, or simulation at least once every year</li><li>2. Completes annual refresher training in accordance with OSHA 29 CFR Part 1910.120 or in accordance with AHJ requirements</li></ol>	Not Specified
<b>PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS</b>	Maintains AHJ-determined certification or documentation indicating completion of training, consistent with OSHA 29 CFR Part 1910.120(q)(6)(iii), NFPA 472, and NFPA 1072	Not Specified

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## NOTES

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

## REFERENCES

1. FEMA, NIMS 508: Hazardous Materials Response Team
2. FEMA, National Incident Management System (NIMS), October 2017
3. FEMA, NIMS Guideline for the NQS, November 2017
4. FEMA, National Response Framework, June 2016
5. National Fire Protection Association (NFPA) 472: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, latest edition adopted
6. NFPA 475: Recommended Practice for Organizing, Managing, and Sustaining a Hazardous Materials/Weapons of Mass Destruction Response Program, latest edition adopted
7. NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, latest edition adopted
8. NFPA 1582: Standard on Comprehensive Occupational Medical Program for Fire Departments, latest edition adopted
9. Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Waste Operations and Emergency Response, latest edition adopted
10. OSHA 29 CFR Part 1910.134: Respiratory Protection, latest edition adopted
11. National Wildfire Coordinating Group (NWCG), PMS 307: Work Capacity Test, latest edition adopted
12. U.S. Fire Administration (USFA)/National Fire Academy (NFA): Field Operations Guide ICS 420-1, latest edition adopted

Superseded