

## HAZARDOUS MATERIALS TECHNICIAN

TYPE	TYPE 1	TYPE 2
DESCRIPTION	Same as Type 2, PLUS: 1. Responds to specialized incidents involving cargo tanks, tank cars, marine tanks, non-tank vessels, intermodal tanks, flammable gas bulk storage, flammable liquid bulk storage, or radioactive materials, depending on level of training and incident scope 2. Uses advanced equipment, such as mass spectrometry and gas chromatography, to detect, identify, and monitor hazardous materials	The Type 2 Hazardous Materials Technician: 1. Responds to hazardous materials incidents, including those involving WMD 2. Uses a risk-based response process to analyze problems 3. Selects applicable detection and monitoring equipment, Personal Protective Equipment (PPE), decontamination procedures, and control equipment 4. Reports to the Hazardous Materials Response Team Leader 5. At the discretion of the Hazardous Materials Response Team Leader, serves as Unit Leader for the decontamination unit, research unit, or entry team
CATEGORY	CRITERIA	CRITERIA
EDUCATION	Same as Type 2  <b>NOTES:</b> Not Specified	Not Specified
TRAINING	Same as Type 2, PLUS: 1. Advanced training in hazardous materials specialties in accordance with the Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120 (q)(6)(iv) or the National Fire Protection Association (NFPA) 472 or NFPA 1072—such as those available through the National Domestic Preparedness Consortium (NDPC) or the Rural Domestic Preparedness Consortium (RDPC)—including one or more of the following: a. Specialized hazardous materials response, such as cargo tank, tank car, marine tank and non-tank vessel, intermodal tank, flammable gas bulk storage, flammable liquid bulk storage, railcar, or radioactive materials b. Use of specialized detection equipment, such as Raman spectroscopy, gas chromatography, mass spectrometry, Fourier transform infrared (FTIR) spectrometry, and so on  <b>NOTES:</b> Military training may substitute for other training at the Authority Having Jurisdiction's (AHJ) discretion.	Completion of the following: 1. IS-100: Introduction to the Incident Command System, ICS-100 2. IS-200: Incident Command System for Single Resource and Initial Action Incidents 3. IS-700: National Incident Management System, An Introduction 4. IS-800: National Response Framework, An Introduction 5. Training in accordance with OSHA 29 CFR Part 1910.120: Hazardous Materials Technician Level, NFPA 472: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction, and NFPA 1072 Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications 6. Training in accordance with OSHA 29 CFR Part 1910.134(k): Respiratory Protection

Superseded



TYPE	TYPE 1	TYPE 2
EXPERIENCE	Same as Type 2, PLUS: Knowledge, Skills and Abilities: 1. Expertise in specialty areas of hazardous materials response, such as chemical, biological, radiological, or nuclear threat agents and their effects on emergency operations 2. Ability to adapt to regional or jurisdictional enterprise operations 3. Ability to operate advanced detection, monitoring, and testing equipment	Knowledge, Skills and Abilities: 1. Knowledge of role of technicians in incident command system 2. Knowledge of hazardous materials terminology and behavior, and the ability to perform advanced hazard and risk assessment 3. Ability to perform advanced control, containment, and confinement techniques 4. Ability to select and use specialized PPE 5. Ability to implement decontamination procedures 6. Ability to perform duties in accordance with AHJ policies and procedures 7. Ability to understand and adapt to the requesting organization's regulations, policies, and procedures 8. Knowledge of workers' compensation reporting procedures 9. Knowledge of radiological dosimeter tracking and recording procedures  Experience: One year of work experience in hazardous materials response
	NOTES: Not Specified	
PHYSICAL/MEDICAL FITNESS	Same as Type 2	1. Performs duties under moderate circumstances characterized by working consecutive 12-hour days under physical and emotional stress for sustained periods of time 2. 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 3. Maintains AHJ-determined physical fitness standards suitable for the environment and typing; 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
	NOTES: Not Specified	
CURRENCY	Same as Type 2	1. Functions in this position during an operational incident, exercise, drill, or simulation at least once every year 2. Conducts annual refresher training in accordance with OSHA 29 CFR Part 1910.120 or in accordance with AHJ requirements
	NOTES: Not Specified	

Superseded



TYPE	TYPE 1	TYPE 2
PROFESSIONAL AND TECHNICAL LICENSES AND CERTIFICATIONS	Same as Type 2	Maintains AHJ-determined certification or documentation indicating completion of training; certifications from the National Board on Fire Service Professional Qualifications (the Pro Board) or the International Fire Service Accreditation Congress (IFSAC) for a Hazardous Materials Technician—certification consistent with OSHA 29 CFR Part 1910.120(q)(6)(iii), NFPA 472, and NFPA 1072—meet or exceed this standard
	NOTES: Not Specified	

OBSOLETE

Superseded

## ORDERING SPECIFICATIONS OR DESIGNATIONS

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1. (X) Can be ordered as an individual asset
2. (X) Can be ordered in conjunction with a NIMS typed team (Hazardous Materials Response Team)
3. ( ) Can be ordered in conjunction with a NIMS typed unit
4. Discuss logistics for deploying this position, such as security, lodging, transportation, and meals, prior to deployment
5. This position works up to 12 hours per shift, is self-sustainable for 72 hours, and is deployable for up to 14 days
6. Requestor and provider should discuss mission-specific capabilities, such as railcar, cargo tank trucks, intermodal tanks, marine tanks, non-tank vessels, bulk storage for flammable liquids and gases, and radioactive materials

## REFERENCES

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1. FEMA, NIMS 508: Hazardous Materials Response Team
2. FEMA, NIMS 509: Hazardous Materials Team Leader
3. FEMA, NIMS 509: Hazardous Materials Research Specialist
4. FEMA, National Qualification System Guide, November 2017
5. Occupational Health and Safety Administration (OSHA) 29 Code of Federal Regulations (CFR) Part 1910.120: Hazardous Waste Operations and Emergency Response, latest edition adopted
6. OSHA 29 CFR Part 1910.1030: Bloodborne Pathogens, latest edition adopted
7. OSHA 29 CFR Part 1910.134: Respiratory Protection, latest edition adopted
8. National Fire Protection Association (NFPA) 472: Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents, latest edition adopted
9. NFPA 475: Recommended Practice for Organizing, Managing, and Sustaining a Hazardous Materials/Weapons of Mass Destruction Response Program, latest edition adopted
10. NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications, latest edition adopted
11. NFPA 1582: Standard on Comprehensive Occupational Medical Program for Fire Departments, latest edition adopted
12. National Wildfire Coordinating Group (NWCG), PMS 307: Work Capacity Test, latest edition adopted

## NOTES

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