

Hazmat Incident Response Training Crosswalk

NFPA 472 & 29 CFR 1910 Table with Hazmat Training

Hazmat Incident Response Training	29CFR1910.120q (July 1, 2013 Edition)	NFPA 472, Chapter/Section: (2013 Edition)
	<p>NOTE: Appendix E, "Training Curriculum Guidelines" provides useful information for an agency or organization designing or evaluating a hazmat response training curriculum.</p>	
1 st Responder Awareness Level	<p>6(i)– "...shall have sufficient training or have had sufficient experience..."</p> <p>(A) Understanding of what haz substances are & risks associated with them at an incident; (B) Understanding of potential outcomes associated with an emergency created when haz substances are present; (C) Ability to recognize presence of haz substances in an emergency; (D) Ability to ID haz substances, if possible; (E) Understanding of the 1st Responder Awareness individual's role in the employer's emergency response plan, including site security & control and the U.S. DOT's ERG; (F) Ability to realize the need for additional resources and to make appropriate notifications to the communication center.</p>	<p>No time/experience requirements listed</p> <p>4.1- General (2 subareas) 4.2- Competencies – Analyzing the Incident (3 subareas) 4.3- Competencies – Planning the Response (<i>No competencies currently required at this level</i>) 4.4- Competencies – Implementing the Planned Response (2 subareas) 4.5- Competencies – Evaluating Progress (<i>No competencies currently required at this level</i>) 4.6- Competencies – Terminating the Incident (<i>No competencies currently required at this level</i>)</p>
1 st Responder Operations Level	<p>6(ii)– "...shall have received at least eight hours of training or have had sufficient experience..."</p> <p>(A) Knowledge of the basic hazard and risk assessment techniques; (B) Know how to select/use proper PPE provided to the first responder operational level; (C)</p>	<p>No time/experience requirements listed</p> <p>5.1- General (2 subareas) 5.2- Core Competencies – Analyzing the Incident (4 subareas) 5.3- Core Competencies – Planning the Response (4 subareas) 5.4- Core Competencies –</p>

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1 st Responder Operations Level (Cont.)	<p>An understanding of basic hazardous materials terms; (D) Know how to perform basic control, containment and/or confinement ops within the capabilities of the resources and PPE available with their unit; (E) Know how to implement basic decontamination procedures; (F) An understanding of the relevant SOPs and termination procedures.</p>	<p>Implementing the Planned Response (4 subareas) 5.5- Core Competencies – Evaluating Progress (2 subareas) 5.6- Core Competencies – Terminating the Incident (<i>No competencies currently required at this level</i>) NOTE: Chapter 6 details Competencies for Operations Level Responders Assigned Mission-Specific Responsibilities; seven of the nine listed competencies apply to transportation-related hazmat incidents</p>
Hazardous Materials Technicians	<p>6(iii)- "...shall have received at least 24 hours of training equal to the First Responder level and in addition have competency in..."</p> <p>(A) Know how to implement the employer's emergency response plan; (B) Know the classification, identification and verification of known and unknown materials by using field survey instruments and equipment; (C) Be able to function within an assigned role in the Incident Command System; (D) Know how to select and use proper specialized chemical PPE provided to the hazmat technician; (E) Understand hazard and risk assessment techniques; (F) Be able to perform advanced control, containment, and/or confinement operations within the capabilities of the resources and PPE available with the unit; (G) Understand and implement decontamination procedures; (H) Understand termination procedures; (I) Understand basic chemical and toxicological terminology and behavior.</p>	<p>No time/experience requirements listed</p> <p>7.1- General (2 subareas) 7.2- Competencies – Analyzing the Incident (5 subareas) 7.3- Competencies – Planning the Response (5 subareas) 7.4- Competencies – Implementing the Planned Response (5 subareas) 7.5- Competencies – Evaluating Progress (2 subareas) 7.6- Competencies – Terminating the Incident (3 subareas)</p> <p>NOTE: Chapters 12 -17 detail competencies for Hazmat Technicians with a designated tank/container or product specialty. Chapter 18 details competencies for Hazmat Technicians with a Radioactive Material specialty.</p>

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<p>Hazmat Specialist Employees</p>	<p>6(iv)- "...shall have received at least 24 hours of training equal to the Technician level and in addition have competency in..."</p> <p>(A) Know how to implement the local emergency response plan; (B) Understand classification, identification and verification of known and unknown materials by using advanced survey instruments and equipment; (C) Know of the state emergency response plan; (D) Be able to select and use proper specialized chemical PPE provided to the hazardous materials specialist; (E) Understand in-depth hazard and risk techniques; (F) Be able to perform specialized control, containment, and/or confinement operations within the capabilities of the resources and PPE available; (G) Be able to determine and implement decontamination procedures; (H) Have the ability to develop a site safety and control plan; (I) Understand chemical, radiological and toxicological terminology and behavior.</p>	<p>NFPA 472 defines three categories of Specialist Employees:</p> <p><u>Specialist Employee C:</u> "...that person who responds to emergencies involving hazmat and/or containers in the organization's area of specialization, and..." "...shall be trained to meet all competencies at the Awareness level relative to the organization's area of specialization and all competencies in Section 9.2."</p> <p>9.2- Specialist Employee C 9.2.1- General (2 subareas) 9.2.2- Competencies – Analyzing the Incident (2 subareas) 9.2.3- Competencies – Planning the Response (2 subareas)</p> <p><u>Specialist Employee B:</u> "...that person who, in the course of regular job duties, works with or is trained in the hazards of specific chemicals or containers in the individual's area of specialization and..." "...shall be trained to meet all competencies at the Awareness level relative to the organization's area of specialization, all competencies at the specialist employee C level, and all additional competencies in Section 9.3."</p> <p>9.3- Specialist Employee B 9.3.1- General (2 subareas) 9.3.2- Competencies – Analyzing the Incident (3 subareas) 9.3.3- Competencies – Planning the Response (5 subareas) 9.3.4- Competencies – Implementing the Planned Response (2 subareas) 9.3.5- Competencies – Evaluating</p>

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Hazmat Specialist Employees (Cont.)		<p>Progress (2 subareas)</p> <p><u>Specialist Employee A:</u> "... that person who is specifically trained to handle incidents involving chemicals or containers for chemicals used in the organization's area of specialization, and..." "...shall be trained to meet all competencies at the Awareness level relative to the organization's area of specialization, all competencies at the specialist employee C level, and all competencies at the hazmat technician level relative to the hazmat and containers used in the organization's area of specialization." 9.4- Specialist Employee A 9.4.1- General (2 subareas) 9.4.2- Competencies – Analyzing, Planning, Implementing and Evaluating</p>
Incident Commanders	<p>6(v)- "...shall receive at least 24 hours of training equal to the first responder operations level and in addition have..."</p> <p>(A) Know and be able to implement the employer's incident command system; (B) Know how to implement the employer's emergency response plan; (C) Know and understand the hazards and risks associated with employees working in chemical protective clothing; (D) Know how to implement the local emergency response plan; (E) Know of the state emergency response plan and of the Federal Regional Response Team; (F) Know and understand the importance of decontamination procedures.</p>	<p>No time/experience requirements listed.</p> <p>"... shall be trained to meet all competencies at the Awareness level, all core competencies at the Operations level, and all competencies in this chapter." 8.1- General (2 subareas) 8.2- Competencies – Analyzing the Incident (2 subareas) 8.3- Competencies – Planning the Response (4 subareas) 8.4- Competencies – Implementing the Planned Response (3 subareas) 8.5- Competencies – Evaluating Progress (2 subareas) 8.6- Competencies – Terminating the Incident (4 subareas)</p>

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Hazmat Officers	Not addressed in 29 CFR 1910.120q.	<p>“...that person who is responsible for directing and coordinating all operations involving hazmat as assigned by the Incident Commander.”</p> <p>“...shall be trained to meet all competencies at the Awareness level, all core competencies at the Operations level, all competencies at the Technician level, and all competencies of this chapter.”</p> <p>“...shall also receive training to meet governmental response and occupational health and safety regulations.”</p> <p>10.1- General (2 subareas) 10.2- Competencies – Analyzing the Incident (10.3- Competencies – Planning the Response (4 subareas) 10.4- Competencies – Implementing the Planned Response (3 subareas) 10.5- Competencies – Evaluating Progress 10.6- Competencies – Terminating the Incident (4 subareas)</p>
Hazmat Safety Officers	Not addressed in 29 CFR 1910.120q.	<p>“...that person who works within an incident management system/ incident command system (IMS/ICS) (specifically, the hazmat branch/group) to ensure that recognized hazmat safe practices are followed at hazmat incidents.”</p> <p>“...shall be trained to meet all competencies at the Awareness level, all core competencies at the Operations level, all competencies at the Technician level, and all competencies of this chapter.”</p> <p>“...shall also receive training to meet governmental response and occupational health and safety</p>

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Hazmat Safety Officers (Cont.)		<p>regulations.”</p> <p>11.1- General (2 subareas)</p> <p>11.2- Competencies – Analyzing the Incident (6 subareas)</p> <p>11.3- Competencies – Planning the Response (7 subareas)</p> <p>11.4- Competencies – Implementing the Planned Response (8 subareas)</p> <p>11.5- Competencies – Evaluating Progress (2 subareas)</p> <p>11.6- Competencies – Terminating the Response (3 subareas)</p>
Trainers	<p>7. “Trainers who teach... shall have satisfactorily completed a training course for teaching the subjects they are expected to teach, such as the courses offered by the U.S. National Fire Academy, or they shall have the training and/or academic credentials and instructional experience necessary to demonstrate competent instructional skills and a good command of the subject matter of the courses they are to teach.”</p>	Not addressed in NFPA 472.
Refresher Training	<p>8(i)- “...employees... trained in accordance with paragraph (q)(6) of this section shall receive annual refresher training of sufficient content and duration to maintain their competencies, or shall demonstrate competency in those areas at least yearly.”</p> <p>8(ii)- “A statement shall be made of the training or competency, and if a statement of competency is made, the employer shall keep a record of the methodology used to demonstrate competency.”</p>	Not addressed in NFPA 472.