

Alignment of Safety Courses to OSHA Standards

Vector Solutions Health & Safety (HSE) Library includes over 250 hours of training. Written by EHS experts, Vector training focuses on industry best practices and standards established by OSHA and other regulatory agencies. The matrix below shows how specific courses align with key training topics and federal OSHA requirements.

■ = OSHA Top 10 Most Frequently Cited Standards

★ = On the Job Training (OJT) also required

OSHA General Industry (GI) Training Requirements

Training Topics	Required Annually	Vector Course	Standard Addressed
Air Monitoring		RVCT-1007 HAZWOPER Air Monitoring	GI (HazCom) & HAZWOPER
Alarm System Maintenance & Testing	X	RV-10781 Fire Alarm Essentials RV-10365 Electric Fire Alarm Systems	GI (HazCom) & HAZWOPER
Ammonia, Anhydrous - Storage & Handling		RVCT-513 Anhydrous Ammonia Awareness	GI
Asbestos Awareness	X	RVCT-804 Asbestos Awareness	GI
Benzene	X	JCOM-40128 Benzene: Safe Handling & Storage	GI
Bloodborne Pathogens	X	RVCT-C-303B Bloodborne Pathogens RVCT-453 Bloodborne Pathogens for Hospitality	GI & OSHA 10-HR
Chemical Hygiene Plans for Laboratories		RVI-10800AW R & D Chemical Hygiene JCOM-40118 Laboratory Safety	GI
Chemical Unloading		RVCT-626 Chemical Unloading Basics RVCT-1063 DOT Hazmat - Highway Carrier Loading and Unloading Requirements	OSHA 10-HR (Not required)
Chromium (VI)		RVCT-328B Hexavalent Chromium	GI (HazCom)
Compressed Gases		RVCT-365B Compressed Air Fundamentals RVCT-364B Compressed Gas Cylinder Safety RV-11420 Lab Safety: Handling Compressed Gas Cylinders in the Laboratory	GI (HazCom) & OSHA 10-HR
Confined Space Entry - Permit Required★		RVCT-439 Confined Space Entry - Permit Required RVCT-533 Confined Space Entry Awareness RVCT-1010 HAZWOPER Confined Spaces JCOM-00010 Confined Spaces in Construction - Construction Worksite Safety	GI
Confined Space - Rescue Plans & Techniques★		RVCT-439 Confined Space Entry - Permit Required RVCT-533 Confined Space Entry Awareness RVCT-1010 HAZWOPER Confined Spaces RV-10887 Confined Spaces in Construction	GI
Cotton Dust	X	RVCT-329B Combustible Dusts	GI

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Electrical Safety - Basic		RVCT-356 Arc Flash Safety RVCT-623 Electric Shock RVCT-387 NFPA 70E Introduction RVCT-789 OSHA Electrical General Requirements RVCT-305B Electrical Safety General Awareness	GI & OSHA 10-HR
Electrical Safety - High Voltage		RVCT-356 Arc Flash Safety	GI
Elevated Work Platforms, including manlifts		RVCT-1095 Mobile Elevating Work Platform (MEWP) Safety for Supervisors RVCT-1096 Mobile Elevating Work Platform (MEWP) Safety RVCT-1094 Vehicle-Mounted Aerial Device Safety	GI
Emergency Action Plans		RVCT-965 Emergency Action Plans JCOM-40123 Exit Routes, Emergency Action Plans & Fire Prevention Plans	GI & OSHA 10-HR
Emergency Eyewashes and Showers		RVCT-394 Safety Showers and Eye Washes RV-11428 Lab Safety: Safety Showers & Eye Washes in the Laboratory	GI (PPE)
Emergency Response Plan	X	RVCT-310 DOT ERG Introduction RVCT-1012 HAZWOPER Emergency Response Plan RVCT-998 Active Shooter Response	GI (HAZWOPER)
Ergonomics		RVCT-418 Ergonomics for Industrial Environments RVCT-308 Ergonomics for Office Environments RVCT-390 Back Injury Prevention; RVCT-968 Shoulder Injury Prevention RVI-11127 Ergonomics Economics	OSHA 10-HR (Not required)
Ethylene oxide	X	RVI-10760 Ethylene Oxide Safety	GI
Explosives and Blasting Agents		RVCT-561 Commercial Explosives Safety RV-11418 Lab Safety: Flammables & Explosives in the Laboratory	GI
Fall Prevention and Protection (Residential, Commercial, Construction)		RVCT-803 Fall Prevention and Protection RVCT-918 Slips, Trips, and Falls RV-10720 Worksite Safety 03: OSHA Fall Protection	GI, Construction, & OSHA 10-HR
Fire Protection and Prevention*	X	RVCT-966 Fire Safety JCOM-40123 Exit Routes, Emergency Action Plans & Fire Prevention Plans	GI & OSHA 10-HR
Fire Protection - Portable Fire Extinguishers	X	RVCT-967 Fire Extinguisher Safety JCOM-40104 Fire Extinguisher Safety Basics	GI
First Aid, including CPR & AED's		RVCT-882 First Aid - Cardiopulmonary Resuscitation (CPR) RVCT-881 First Aid - Automated External Defibrillator (AED) RVCT First Aid Series 881-899 and includes first aid for burns, seizures, eye injuries, diabetic emergencies, and more	GI
Flammable and Combustible Liquids		RVCT-386B Flammable and Combustible Liquids	GI & OSHA 10-HR
Formaldehyde	X	RVCT-310B Formaldehyde Awareness RV-11424 Lab Safety: OSHA Formaldehyde Standard	GI
Grain Handling - Bin, Silo, and Tank Entry	X	RVCT-439 Confined Space Entry - Permit Required RVCT-533 Confined Space Entry Awareness RVCT-1010 HAZWOPER Confined Spaces JCOM-00010 Confined Spaces in Construction	GI
Grain Handling - Combustible Dusts	X	RVCT-329B Combustible Dusts	GI (HazCom)
Grain Handling - Fire and Explosion Prevention	X	RVCT-329B Combustible Dusts RVCT-331B Hot Work Safety RVCT-966 Fire Safety	GI
Hazard Communication		RVCT-479 Hazard Communication GHS	GI & OSHA 10-HR
HAZWOPER (40 hours required initially, 8 hours annually)	X	RVCT HAZWOPER 8 Hour Annual Refresher	GI
HAZWOPER - Incident Command System	X	RVCT-1014 HAZWOPER Incident Command System	GI
Hearing (Noise) Protection and Conservation	X	RVCT-802 Hearing Conservation	GI
Heat Stress		RVCT-371B Heat Stress Causes RVCT-344 Heat Stress Symptoms and Prevention RVCT-372 Cold Stress	GI (PPE)

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Hot Work		RVCT-331B Hot Work Safety RVCT-363 Process Safety Management RVCT-332B Hot Work Permit RVI-10847 Process Safety Management (PSM): Hot Work Permits	GI
Housekeeping		RVCT-848 Industrial Housekeeping RVCT-353B 5S Methodology	GI (Grain handling, Asbestos)
Industrial Hygiene		RVCT-347 Industrial Hygiene Basics	OSHA 10-HR (Not required)
Ionizing Radiation Safety*		RVCT-324B Radiation Safety RVCT-1017 HAZWOPER Ionizing Radiation Safety	GI
Job Hazard Analysis		RVCT-385B Job Hazard Analysis	OSHA recommended
Ladder Safety		RVCT-806 Ladder Safety AMRLS00CEN Rigging: Ladders and Scaffolds	Construction and Maritime
Lead	X	RVCT-318B Lead Awareness	GI
Line Breaking & Blinding		RVCT-343 Line Breaking Safety	GI (PSM)
Lockout-Tagout		RVCT-532 Lockout Tagout for Authorized Employees RVCT-441 Lockout Tagout for Affected Employees	GI
Machine Guarding		RVCT-335B Machine Guarding	OSHA 10-HR (Not required)
Materials Handling		RVCT-950 Storage and Handling of Combustibles RVCT-947 Storage and Handling of Corrosives RVCT-949 Storage and Handling of Flammables JCOM-40119 Material Handling: Tank Trucks	OSHA 10-HR (Not required)
Mechanical Power Press Safety*	X	RVCT-958 Mechanical Power Press Safety RVCT-335B Machine Guarding	GI
Medical and Exposure Records	X	RVCT-923 Medical and Exposure Records Access	GI (HAZWOPER & hazardous chemicals)
Medical Surveillance	X	RVCT-1015 HAZWOPER Medical Surveillance	GI (HAZWOPER & hazardous chemicals)
Mobile Cranes, Rigging, and Signaling*		RVCT-342 Crane and Hoist Rigging Safety RVCT-992 Crane Hand Signals RV-10455 Worksite Safety 07: OSHA Cranes & Other Hoists	OSHA requires operator certification
OSHA Injury and Illness Reporting and Recordkeeping		RVCT-505 OSHA Recordkeeping	GI
Overhead Cranes & Hoists*		RVCT-432B Overhead Crane Safety RVCT-423B Overhead Crane Operational Safety RV-10455 Worksite Safety 07: OSHA Cranes & Other Hoists	GI & OSHA requires operator certification
Personal Fall Arrest Systems (PFAS)		RVCT-803 Fall Prevention and Protection	GI
Personal Protective Equipment		RVCT-801 Personal Protective Equipment JCOM-40137 Eye and Face Protection	GI, OSHA 10-HR
Powered Industrial Trucks*		RVCT-330 Forklift Safety AMFOO00CEN Forklifts: Operation JCOM-40042 Rough Terrain Forklift Safety RVCT-1035 Forklift Safety for Canada RVCT-1072 Turret Truck Safety RVCT-334B Forklifts - Reducing Product Damage	GI
Powered Industrial Trucks - Pedestrian Safety		RVCT-320B Pedestrian Safety RVCT-529 Heavy Equipment Visibility	GI
Powered Platforms for Building Maintenance		RVCT-800 Aerial Work Platform Safety	GI
Process Safety Management of Hazardous Chemicals		RVCT-363 Process Safety Management; RV PSM Series	GI

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Training Topics	Required Annually	Vector Course	Standard Addressed
Pulp, Paper & Paperboard Mills (Bleaching operations)		RVCT-483 Paper Machine General Safety	GI
RCRA Training for Treatment, Storage, and Disposal Operations (24 hours required initially, 8 hours annually)	X	RVCT-535 RCRA - Introduction RVCT-536 RCRA - Generator, Container, Tank Requirements RVCT-537 RCRA - Preparing for Transportation, Manifesting, LDR RVCT-538 RCRA - Emergencies, Inspections, and Training RVCT-539 RCRA - Special Wastes and Other Requirements	GI
Respiratory Protection	X	RVCT-900 Respirator Basics RVCT-1018 HAZWOPER Respirators RVCT-902 Air-Purifying Respirators RVCT-901 Air-Supplying Respirators RVCT-904 Escape Respirators and SCRs RVCT-903 Respirator Medical Evaluation and Fit Testing	GI & OSHA 10-HR
Solvents and Cleaning Chemicals		RVCT-935 Volatile Solvent Spill Response	GI (HazCom)
Spill and Leak Containment & Control	X	RVCT-935 Volatile Solvent Spill Response RVCT-409 Spill Prevention, Control, and Countermeasures	GI (HAZWOPER, Emergency Response)
Supplied Air Breathing Systems*		RVCT-901 Air-Supplying Respirators	GI
Walking and Working Surfaces	X	RVCT-918 Slips, Trips, and Falls RVCT-937 Slip, Trip, and Fall Prevention Inspections RVCT-936 Floor and Walkway Safety and Auditing RVI-11319AW Walking and Working Surfaces	GI (HAZWOPER), OSHA 10-HR
Welding Safety*		RVCT-518 Welding Safety RVCT-696 Welding Equipment and Environments RVCT-572 Arc Welding Basics	GI
Worker Right to Know		RVCT-944 Worker Right to Know (RTK)	GI (HazCom)

Alignment to State, other Federal Agency, or non-GI OSHA Training Standards

Training Topics	Required Annually	Vector Course	Standard Addressed
Accident Prevention Signs and Tags		JCOM-40124 Warning Signs and Labels	
Acetylene Fuel & Gas Safety		RVCT-606 Oxyacetylene Welding Equipment and Safety	
Excavation and Trenching	X	RVCT-340 Trenching and Excavation Safety RVCT-410B Trenching and Excavation Soil Properties RV-10456 Worksite Safety 08: OSHA Power Tools and Excavations	Construction
Flaggers (Traffic)		RVCT-909 Work Zone Safety	
Ground Control Plan (MSHA)	X	RVCT-972 Ground Control Inspections at a Mine	MSHA
Hand and Power Tools*		RVCT-313B Hand and Power Tools	Construction
Hazmat Facility Security Plans		RVCT-1047 DOT Hazmat - Security Requirements	U.S. DOT (for certain facilities)
Incident Investigation		RVCT-913 Incident Investigation RVI-10848 Process Safety Management (PSM): Incident Investigations	
Injury and Illness Prevention		RVCT-390 Back Injury Prevention RVCT-968 Shoulder Injury Prevention RVCT-389B Hand Washing and Hygiene RVCT-361 Mold Awareness and Prevention	
Laser Safety		RVCT-805 Laser Safety	
Powder-Actuated Tools		RVCT-313B Hand and Power Tools	
Scaffolding*		RVCT-354 Supported Scaffold Safety AMRLS00CEN Rigging: Ladders and Scaffolds RV-10454 Worksite Safety 06: OSHA Scaffolds	Construction
Silica Dust		RVCT-524 Crystalline Silica Awareness	

Glossary



HazCom

OSHA's Hazard Communication Standard (HCS) requires the development and dissemination of information about the identities and hazards of chemicals to ensure chemical safety in the workplace. All employers with hazardous chemicals in their workplaces must comply with OSHA's HazCom standard, including general industry and construction employers.



HAZWOPER

OSHA's Hazardous Waste and Emergency Response standard (HAZWOPER) requires that any workers who perform cleanup, emergency response, or corrective actions that involve the uncontrolled release of hazardous substances receive training to protect themselves and others against hazardous materials. Workers generally need HAZWOPER training if they perform duties in any of the following work environments:

- Underground job sites
- Sites with contaminated groundwater or soil
- Subsurface investigations
- Construction sites where hazardous materials are present
- Uncontrolled hazardous waste sites listed by an official government agency
- Corrective action sites covered by the Resource Conservation and Recovery Act (RCRA)
- Any site that has Imminent Danger to Life and Health (IDLH) conditions, for example, high concentrations of toxic substances, an oxygen-deficient atmosphere, conditions that pose a fire or explosion hazard, etc.



OSHA GI

OSHA uses "general industry", or GI, to refer to all industries, excluding agriculture, construction, and maritime industries.



OSHA 10 Hour (GI and Construction)

The 10-hour safety course covers general safety and health hazards for entry-level workers. OSHA doesn't federally require employers to provide 10-hour "Outreach" training, but they do recommend it as a general orientation to safety. Some OSHA state plans, however, (such as New York, Massachusetts, etc.) do require it for employees depending on their roles/job functions (particularly OSHA 10 Construction). Some unions, organizations, or other jurisdictions may also create internal policies requiring employees to complete OSHA Outreach training.