

## Construction Safety Training Requirements Matrix

Training Topic	Standard	Affected Employees	Frequency	Topics Covered
Blasting and Use of Explosive	29CFR 1926.900 1926.901 1926.902 1926.909	Authorized and qualified personnel	Unspecified	General provisions. Blaster qualifications. Signs, and safety procedures. Site specific.
Concrete and Masonry Construction	29 CFR 1926.701 1926.703	Designated employees	Initial/reassignment  Whenever duties or procedures change	General requirements. Requirements for equipment & tools. Cast-in-place requirements. Site specific.
Demolition	29 CFR 1926.850 1926.859	Authorized & designated employees	Initial/reassignment  Whenever duties or procedures change	Safety procedures. Mechanical demolition. Site specific.
Electrical Safety Awareness: Unqualified Persons	29 CFR 1910.332	All employees who will face a risk of electric shock, and/or who work on or near exposed energized parts	Unspecified  Initial/reassignment recommended	Fundamentals of electricity. Recognizing electrical hazards. Electrical shock and effects. Current control/shock prevention. Inspection/care of equipment. Safe work practices. Site specific.
Construction Specific Electrical	1926.404			



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Electrical Safety: Qualified Persons	29 CFR 1910.332  NFPA 70 E	All employees permitted to work on or near exposed energized parts	Initial/reassignment  Whenever inadequacies are identified, or when new technologies, equipment, or process necessitates a change  Retraining is also required before performing any tasks that are performed less often than once per year	Electrical safety requirements. Hazard identification and analysis. Working with energized equipment. Controlling electrical hazards. Safe work practices. Personal protective equipment. Emergency procedures. Site specific.
Emergency Action & Fire Prevention	29 CFR 1926.35 1926.150 1926.151	All employees  Emergency Coordinator and Alternates	Initial/reassignment  Whenever the Emergency Action and Fire Prevention plan changes or when the duties or employees' responsibilities under the plan changes  Annual retraining recommended	Emergency evacuation procedures. Recognition of alarms. Awareness of fire hazards. Fire prevention. Applicable details of employer's written plan change. Site specific.
Portable Fire Extinguishers	29 CFR 1910.157	All employees	Initial/reassignment  Annually	Elements and classes of fires. Proper use of fire extinguisher. Fixed fire extinguishing systems. Fire detection systems. Site specific.
Environmental Controls	29 CFR 1926.53	All employees	Initial/reassignment	Illumination & ventilation. Radiation both ionizing &



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	1926.54 1926.55 1926.57 1926.62		Whenever new hazards are introduced into workplace  Annual retraining recommended	nonionizing (if applicable). Controlling exposure to hazardous materials thru the use of environmental controls. Site specific.
Excavations	29 CFR 1926.651	Designated employees	Initial/reassignment  Whenever duties or procedures change	General requirements for excavations, trenching and shoring. Site specific.
Fall Protection	29 CFR 1926.503 1926.451 1926.502	All employees who might be exposed to fall hazards	Initial/reassignment  When changes in the workplace and/or in the types of fall protection systems or equipment to be used render previous training obsolete  Whenever employee indicates that he/she has not retained the requisite understanding or skill	Hazard recognition. Fall prevention/protection. Personal fall arrest system. Inspection guidelines. Correct usage/maintaining equipment. Fall protection plan if applicable. Scaffolding & pitched roof work. Site specific.
Forklift Operator Safety Awareness	29 CFR 1910.178	All employees who operate powered industrial material handling equipment	Initial/reassignment  Performance Evaluation every three years (certification card)	Forklift classifications, components and safety features. Basis forklift operation, loading and unloading. Inspection and maintenance. Materials handling.
Construction Specific Motor Vehicles,	1926.602 1926.604		Whenever an employee is	Site clearing.



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Mechanized Equipment, Etc.			observed operating a forklift in an unsafe manner	Performance evaluations (as appropriate). Site specific.
Hazard Communication  Construction Specific Controls	29 CFR 1910.1200  1926.59 1926.62	All employees and other personnel who may be in areas where they could be exposed to hazardous chemicals	Initial/reassignment  Whenever new hazards are introduced into workplace  Annual retraining recommended	Physical and health hazards of chemicals in the work area. Safe use, storage, and handling of hazardous materials. Hazard information sources (labels and MSDS). How to read and comprehend MSDS. Non-routine tasks. Applicable details of employer's written Hazard Communication Program. Site specific.
Ladders and Industrial Stairs  Construction Specific	29 CFR 1910.24 1910.25 1910.26 1910.27  1926.1060	All Employees	Initial/reassignment	General requirements for construction and safe use of ladders and industrial stairs. Site specific.
Lockout/Tagout (Control of Hazardous Energy Standard)	29 CFR 1910.147	Authorized employees  Affected employees  All other employees whose work operations are or may be in an area where energy control	Initial/reassignment  Whenever processes, equipment, control procedures or job responsibilities change, or	Recognition and control of hazardous energy sources. Roles and responsibilities of Authorized and Affected employees. Energy types and characteristics. Lockout/Tagout procedures.



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Construction Specific	1926.64 1926.417	procedures may be utilized	inadequacies are identified	Using PPE and other precautions. Site specific.
Medical Services and First Aid	29 CFR 1926.50	Designated employees	Initial/reassignment  Whenever procedures change  Annually	Basic first aid supplies & site specific contents of first aid kits. CPR & First Aid. Site specific.
Occupational Noise Exposure (Hearing Exposure & Protection)	29 CFR 1926.52 1926.101	All employees enrolled in Hearing Conservation Program.	Initial/reassignment  Annually	Causes & effects of hearing loss. Engineering & administrative controls. Hearing protection devices (advantages, disadvantages, and attenuation of various types, and instructions on selection, fitting, use, and care). Audiometric testing procedures. Site specific.
Overhead and Gantry Crane Operator Safety Awareness	29 CFR 1926.550 1926.552	All employees who will operate overhead and gantry cranes	Initial/reassignment	Crane inspections. Proper material handling techniques. Physics of sling angles & safe load capacities. Hoists & elevators. Safety precautions. Avoiding accidents. Site specific.



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Permit-Required Confined Space Entry	29 CFR 1926.64	All employees whose work is regulated by the OSHA standard	Initial/reassignment  Whenever processes, equipment, or job responsibilities change or inadequacies are identified	Identification of permit and non-permit confined spaces. Hazards associated with confined space and appropriate equipment. Team responsibilities. Proper entry procedures. Atmospheric testing and monitoring. Site specific.
Personal Protective Equipment	29 CFR 1926.95 1926.96 1926.100 1926.102 1926.104 1926.105 1926.106	All employees required to use PPE	Initial/reassignment  Whenever hazards or PPE changes  Annual retraining recommended	Review of workplace hazards and assessment. Role and importance of PPE. Determining when and which PPE is needed. Limitations, care and maintenance of equipment. Site specific.
Power Transmission and Distribution	29 CFR 1926.950 1926.955 1926.956 1926.957	Authorized and Designated employees	Initial/reassignment  Whenever procedures or processes change	General requirements for overhead and underground lines and energized substations. Site specific.
Process Safety Management	29 CFR 1926.64	All employees involved in a process and who may be exposed to hazards during the process	Initial/reassignment  Whenever procedures or processes change  At least every 3 years	Safe work practices. Control of hazards. Site specific.



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Respiratory Protection  Construction Specific	29 CFR 1910.134  1926.103	All employees who use respirators	Initial/reassignment  Whenever changes occur in the hazards present or in the respirator being used  Annually (including fit testing)	When and why respirators are necessary. Medical evaluations. Selection, limitations, use, care and maintenance of respirators. Fit-testing. Applicable details of employer's written Respiratory Protection Program. Site specific.
Signs, Signals and Barricades	29 CFR 1926.201 1926.202	Designated employees	Initial/reassignment  Whenever procedures change	Uniform flagmen signaling and traffic control devices for streets and highways. Site specific.
Steel Erection	29 CFR 1926.752	All employees performing steel erection	Initial/reassignment  Whenever procedures change	General safety procedures. Bolting, riveting, fitting-up and plumbing-up. Site specific.
Tools Hand and Power	29 CFR 1926.302 1926.304	All employees using hand and power tools	Initial/reassignment  Whenever procedures change	General safety procedures. Site specific.



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Underground Construction	29 CFR 1926.800 1926.801 1926.803	All employees	Initial/reassignment  Whenever procedures change	How to recognize and avoid hazards associated with underground construction activities including, where appropriate, the following subjects: <ul style="list-style-type: none"> <li>Air monitoring</li> <li>Ventilation</li> <li>Illumination</li> <li>Communications</li> <li>Flood control</li> <li>Mechanical equipment</li> <li>Personal protective equipment;</li> <li>Explosives</li> <li>Fire prevention and protection;</li> <li>Emergency procedures</li> </ul> Use of compressed air. Site specific.
Welding and Cutting	29 CFR 1926.350 1926.351 1926.352 1926.354	Authorized employees	Initial/reassignment  Whenever procedures change	Safety procedures. Gas welding and cutting. Arc welding and cutting. Fire prevention. Site specific.

**A note on Toolbox Talks:**

Toolbox Talks (a.k.a. Tailgate Meetings) can help construction employers comply with OSHA’s general safety training requirements under 1926.21(b)(2) and are one aspect of a comprehensive training program. Toolbox Talks generally identify site-specific hazards and reinforce safe work practices to avoid such hazards, whereas the items outlined above are standard-specific training requirements.

