

Certified Demolition Technician (CDT)

Exam Content Outline

Updated: December 9, 2024

DOMAIN 1: SAFETY (30%)

- a. Personal Protective Equipment (PPE)
 - i. Identify the required personal protective equipment (PPE) for the specific task on the job.
 - ii. Identify the different types of respiratory protection (e.g., half mask, full face mask, dust mask, etc.).
- b. Hazard Communication Program (HazCom)
 - i. Understand what is HazCom.
 - ii. Understand when to use HazCom.
 - iii. Locate the safety data sheet on the job site.
- c. General Knowledge of OSHA Standards.
 - i. Understanding the elements of the OSHA Focus Four. Falls, Caught-in or -Between, Struck-By, and Electrocutation.
 - ii. Understand individual rights as per OSHA, DOL, and federal law.
- d. Recognize What is a Confined Space.
 - i. Identify a confined space.
- e. Knowing the Rules of Lockout and Tagout.
 - i. Understand the purpose of a lockout and tag out policy.
 - ii. Understand the procedures of a lockout and tag out.
- f. Trench Safety
 - i. Understand the definition of a trench.
 - ii. Recognize potential hazards (i.e., cave-in, atmospheric, falling objects, etc.).
- g. Fire Safety
 - i. Recognize potential fire hazards.
 - ii. Identify the different types of fire extinguishers.
 - iii. Understand the placement of fire extinguishers.
 - iv. Illustrate how to inspect the fire extinguishers.
- h. Lead
 - i. Recognize potential lead exposure hazards.
 - ii. Demonstrate personal hygiene while working with lead.

- i. Silica
 - i. Recognize potential silica hazards.
 - ii. Understand control measures for silica exposure.
- j. Asbestos
 - i. Recognize suspect asbestos containing material (ACM).
 - ii. Demonstrate what to do when you encounter ACM.
 - iii. Understand the procedures to identify ACM.
- k. Fall Protection
 - i. Recognize potential fall hazards.
 - ii. Communicate the potential hazards.

DOMAIN 2: ENVIRONMENTAL (15%)

- a. Dust Control (Run off issue, water, firehose, snow blowing machine, live equipment, electrical panel, sweeping compound, alternative water measures).
 - i. Understand the different methods of dust control.
 - ii. Recognize hazards created by dust control measures.
 - iii. Recognize when to use dust control measures.
- b. Identify Other Regulated Materials.
 - i. Identify universal waste.
 - ii. Understand there are proper disposal requirements for universal waste.
- c. Identify Other Hazardous Material.
 - i. Recognize suspect hazardous materials.
 - ii. Demonstrate what to do when you encounter hazardous materials.
 - iii. Understand there are procedures to identify hazardous materials.

DOMAIN 3: TOOLS AND EQUIPMENT (25%)

- a. Power Hand Tools (i.e., Hydraulic, Electric, Pneumatic, Gas, Battery)
 - i. Identify the different types of power hand tools and their uses.
 - ii. Inspect the different types of power hand tools.
- b. Basic Knowledge of Torching
 - i. Identify the different components of a torch set up.
 - ii. Understand the different types of torch fuels.
 - iii. Proper maintenance and storage of torching equipment.

- iv. Understand the proper handling of torching equipment.
 - v. Demonstrate proper basic use of torching equipment.
 - vi. Understand the safety procedures and standards for torching.
 - vii. Select the proper PPE for torching (e.g., positioning, hearing, and ear protection).
- c. Ride On and Walk Behind Material Handling (i.e., battery power, gas, diesel, electric, etc.).
- i. Identify the different types of material handling equipment and their designated use.
 - ii. Understand the potential hazards created by the different types of material handling.
 - iii. Proper maintenance and storage of equipment.
 - iv. Recognize the capacity limits of the equipment.
 - v. Demonstrate proper basic use of equipment.
 - vi. Understand the safety procedures and standards for equipment operations.
 - vii. Select the proper PPE for equipment operations.
- d. Compact Mini Equipment (i.e., Skid Steer, Mini Excavator, Robotic Machines, etc.)
- i. Identify the different types of compact mini equipment and their designated use.
 - ii. Understand the potential hazards created by the different types of material handling.
 - iii. Proper maintenance and storage of equipment.
 - iv. Recognize the capacity limits of the equipment.
 - v. Demonstrate proper basic use of equipment.
 - vi. Understand the safety procedures and standards for equipment operations.
 - vii. Select the proper PPE for equipment operations.
- e. Heavy Construction Equipment
- i. Identify the different types of heavy construction equipment and their designated use.
 - ii. Understand the potential hazards created by the different types of material handling.
 - iii. Proper maintenance and storage of equipment.
 - iv. Understand the proper operation of the equipment.
 - v. Understand the safety procedures and standards for equipment operations.
 - vi. Select the proper PPE for equipment operations.

DOMAIN 4: OPERATIONAL METHODOLOGY (17%)

- a. Aerial Lift Awareness
- i. Understand the proper use and limitation of an aerial lift.
 - ii. Demonstrate knowledge of rescue procedures.
 - iii. Understand the site-specific hazard related to the specific task.

- b. Knowing the right tool for the job.
 - i. Understand the site-specific hazard related to the specific task with the available tools.
- c. Stairways/Ladders/Scaffolds
 - i. Understand there are standards for scaffolding erection and use.
 - ii. Demonstrate the knowledge of proper ladder use.
 - iii. Demonstrate the knowledge of stairway use and condition.
- d. Basic Rigging Regulations and Requirements
 - i. Identify different rigging components and equipment (chain fall, come-a-longs).
 - ii. Understand the proper maintenance and storage of rigging equipment.
 - iii. Understand there are standards regulating lifting and rigging.
- e. Ride On - Compact Equipment
 - i. Understand the proper use and limitation of ride on equipment.
 - ii. Understand the site-specific hazards and limitations related to different types of ride on equipment.
 - iii. Understand the hazards with the specific task related to ride on equipment.
- f. Basic Traffic Control (i.e., Flagger, Truck Traffic, etc.).
 - i. Understand the certification requirements for public traffic control.
 - ii. Demonstrate the ability to follow job site traffic control.
- g. Housekeeping (i.e., job site, hazards on site, covering holes, impalement hazards, trips, slips, falls, etc.).
 - i. Demonstrate the ability to communicate or correct known hazards.
 - ii. Understand the hazards of poor housekeeping.
 - iii. Identify proper storage procedures for job site supplies.
 - iv. Demonstrate proper hygiene in the breakrooms and restrooms.
- h. Knowing when to apply firewatch regulations/standards.
 - i. Understand the project requirements for hot work procedures.
 - ii. Demonstrate the ability to identify when firewatch is necessary.
 - iii. Understand the role and responsibilities of an individual firewatch.
 - iv. Demonstrate the ability to communicate an emergency event.
- i. Working Around Equipment.
 - i. Demonstrate basic understanding of equipment working radius.
 - ii. Understand the equipment operator's limited visual field.
 - iii. Demonstrate the ability to communicate or correct known hazards.
 - iv. Identify the safe distance for the work being performed.

- j. Material Handling, Sort, Sizing, and Segregation
 - i. Identify recyclable materials.
 - ii. Identify ferrous and non-ferrous materials.
 - iii. Demonstrate the ability to maintain an organized staging area.
 - iv. Understand the different handling procedures between scrap and salvageable equipment materials.
 - v. Understand the different handling procedures between recyclable and disposable materials.
- k. Emergency Response
 - i. Understand the elements and components of an emergency response plan.
 - ii. Ability to follow an emergency response plan.

DOMAIN 5: PEOPLE SKILLS – WORKPLACE BEHAVIOR (13%)

- a. Drugs and Alcohol
 - i. Recognize impairment and communicate to their supervisor.
- b. Stop Work Authority
 - i. Identify when a stop work order is appropriate.
 - ii. Understand the ability to apply a stop work order.
- c. Identify Hazards
 - i. Ability and responsibility to communicate real-time hazards appropriately to coworkers (e.g., reporting near misses, unplanned events, etc.).
 - ii. Responsibility to communicate unplanned events and near misses to your supervisor.
 - iii. Understand and apply situational awareness practices.
 - iv. Understand hazards associated with repetitive tasks and positioning.
 - v. Demonstrate the ability to prevent a hazard towards coworkers.
- d. Inclusive Work Environment
 - i. Ability to understand a non-discriminatory work environment.
- e. Social Media
 - i. Understand the company and project social media and public relations policy.