**Worksite Safety 10: OSHA Demolition (RV-10561) – 1 hour course**

**Course Description**

Demolition is one of the most spectacular – and dangerous – undertakings in the construction industry. A tremendous number of safety precautions are taken and meticulous planning that goes into each such undertaking. This module will familiarize you with some of the basics of safe demolition practices and the attendant OSHA standard.

**Course Objectives**

Upon completion of the lesson, participants will be able to:

* Have a basic knowledge of the preparatory operations necessary before demolition takes place
* Know the basics of the different types of demolition (mechanical vs. explosives)
* Know the basics for demolishing special structures
* Be familiar with safe work practices
* Be familiar with safe blasting procedures
* Know the safety basics for transporting explosives

**Course Outline**

**Introduction – 5 minutes**

Demolition is one of the most spectacular – and dangerous – undertakings in the entire construction industry.

**Preparatory Operations – 10 minutes**

Before the start of every demolition job, the manager and safety personnel for the demolition contractor should take a number of steps to safeguard the health and safety of workers at the job site.

* Engineering Survey
* Locating Utilities
* Medical Services
* Police and Fire Contact
* Fire Prevention and Protection

**Mechanical Demolition – 5 minutes**

Mechanical demolition refers to demolition using equipment like a jackhammer or wrecking ball, rather than explosives.

**Special Structures Demolition – 15 minutes**

The different forms of construction used in a number of more or less conventional structures built during the last few decades will give rise to a variety of problems when the time comes for them to be demolished.

* Demolition of Prestressed Concrete
* Categories of Prestressed Construction
* Specialty Stressed Units
* Confined Spaces
* Inspection and Planning
* Safe Work Practices
* Debris Clearance
* Demolition by Deliberate Collapse

**Safe Blasting Procedures – 5 minutes**

Prior to the blasting of any structure or portion thereof, a complete written survey must be made by a qualified person of all adjacent improvements and underground utilities.

* General Safe Work Practice
* Fire Precautions
* Personnel Selection

**Procedures after Blasting – 5 minutes**

Immediately after the blast has been fired, the firing line shall be disconnected from the blasting machine and short-circuited.

* Inspection After the Blast
* Disposal of Explosives

**Transportation of Explosives – 5 minutes**

Vehicles used for transporting explosives shall be strong enough to carry the load without difficulty, and shall be in good mechanical condition.

* Vehicle Safety

**Storage of Explosives – 5 minutes**

All explosives must be accounted for at all times and all not being used must be kept in a locked magazine.

* Inventory Handling and Safe Handling
* Storage Conditions

**Conclusion – 5 minutes**

* Summary
* Fact Sheets