Heavy Equipment Operations

**Utility Tractors (17.5 Hours)**
- **Trainee $20**
- **Instructor $20**
- (Module ID 22105-12) Covers operation of general utility tractors in the construction industry. Describes duties and responsibilities of the operator, safety rules for operation, the attachment of implements, and basic preventive maintenance practices.

**Introduction to Earthmoving (12.5 Hours)**
- **Trainee $20**
- **Instructor $20**
- (Module ID 22201-12) Provides a broad introduction to the process of planning and executing earthmoving activities on various types of construction projects. The use of heavy equipment such as bulldozers, scrapers, excavators, and loaders is explained.

**Grades (15 Hours)**
- **Trainee $20**
- **Instructor $20**
- (Module ID 22106-12) Introduces the concept of preparing graded surfaces using heavy equipment. Covers identification of construction stakes and interpretation of marks on each type of stake. Describes the process for grading slopes.

**Excavation Math (17.5 Hours)**
- **Trainee $20**
- **Instructor $20**
- (Module ID 22209-13) Explains how to read site plans to calculate cut and fill requirements. Provides instruction and practice in interpreting both roadway and construction site drawings used for excavation and grading work.

**Soils (10 Hours)**
- **Trainee $20**
- **Instructor $20**
- (Module ID 22308-13) Describes soil classification systems and explains how shrink and swell factors affect equipment selection. Discusses how soil conditions affect equipment performance and explains techniques for working with various types of soils.

**Skid Steers (22.5 Hours)**
- **Trainee $20**
- **Instructor $20**
- (Module ID 22212-13) Describes the many uses of skid steers and the attachments available for these machines. Covers safety practices, as well as inspection, startup, shutdown, and operation of skid steers.

**Loaders (17.5 Hours)**
- **Trainee $20**
- **Instructor $20**
- (Module ID 22205-13) Covers the uses of wheel and track loaders, as well as operator maintenance, loader safety, and operating procedures. Includes procedures for using loaders in excavation, grading, and demolition work.

**Scrapers (17.5 Hours)**
- **Trainee $20**
- **Instructor $20**
- (Module ID 22204-13) Describes the types of scrapers used in site preparation, as well as the safe practices associated with the operation of scrapers. Covers operator inspection and maintenance requirements, along with startup, shutdown, and operating techniques.
All of the modules listed below are included in the Trainee Guide and the Instructor’s Package. The following ISBN and pricing information is for ordering individual modules only.

**Finishing and Grading (25 Hours)**

- **Trainee** $20  

- **Instructor** $20  

(Module ID 22307-14) Provides training on common types of compaction equipment; the primary instruments, controls, and attachments of a roller; safety guidelines associated with compaction equipment; and prestart inspections, preventive maintenance, and proper operating procedures. Presents factors involved in work activities associated with a roller.

**Compaction Equipment (25 Hours)**

- **Trainee** $20  

- **Instructor** $20  

(Module ID 22203-14) Provides training on common types of compaction equipment; the primary instruments, controls, and attachments of a roller; safety guidelines associated with compaction equipment; and prestart inspections, preventive maintenance, and proper operating procedures. Presents factors involved in work activities associated with a roller.

**Dozers (30 Hours)**

- **Trainee** $20  

- **Instructor** $20  

(Module ID 22302-14) Identifies and describes the common uses, types, components, instruments, controls, and attachments of dozers. Presents safety guidelines, prestart inspection procedures, and preventive maintenance requirements. Describes basic startup and operation, and covers common work activities associated with dozers.

**Backhoes (30 Hours)**

- **Trainee** $20  

- **Instructor** $20  

(Module ID 22303-14) Identifies and describes the common uses, types, and components of backhoes. Presents safety guidelines, prestart inspection procedures, and preventive maintenance requirements. Describes basic startup and operation, and covers common work activities associated with backhoes.

**Excavators (35 Hours)**

- **Trainee** $20  

- **Instructor** $20  

(Module ID 22304-14) Identifies and describes the common uses, types, and components of excavators. Presents safety guidelines, prestart inspection procedures, and preventive maintenance requirements. Describes basic startup and operation, and covers common work activities associated with excavators.

**Off-Road Dump Trucks (30 Hours)**

- **Trainee** $20  

- **Instructor** $20  

(Module ID 22310-14) Identifies and describes the common uses, types, and components of off-road dump trucks. Presents safety guidelines, prestart inspection procedures, and preventive maintenance requirements. Covers basic startup, driving maneuvers, loading, and dumping procedures for off-road dump trucks.

**Motor Graders (40 Hours)**

- **Trainee** $20  

- **Instructor** $20  

(Module ID 22305-14) Identifies and describes the common uses and types of motor graders. Presents safety guidelines, prestart inspection procedures, and preventive maintenance requirements. Describes basic startup and operation, and covers common work activities associated with motor graders.