



Western Technical College

## 10001127 Landscape Maintenance 2

### Course Outcome Summary

#### Course Information

<b>Description</b>	This course will provide "hands-on" learning opportunities for the students in landscape maintenance. Students will experience the operation of landscape tools and equipment, as well as learn and practice maintenance skills such as tree and shrub planting, incorporating soil amendments to planting beds, fertilizing, mulching, as well as the operation of skid steer endloaders, landscape tractors, and trucks with trailers. Students will also learn proper safety practices for equipment, tools, supplies and personal protection equipment.
<b>Career Cluster</b>	Agriculture, Food and Natural Resources
<b>Instructional Level</b>	Associate Degree Courses
<b>Total Credits</b>	2
<b>Total Hours</b>	54

#### Textbooks

No textbook required.

#### Learner Supplies

Sturdy closed-toed shoes/boots. **Vendor:** To be discussed in class. Required.

Online Landscape Safety Training 1-yr Subscription. **Vendor:** Landscape Safety Inc. Required.

#### Course Competencies

1. **Demonstrate proper horticultural planting techniques in winter and spring.**

### **Assessment Strategies**

- 1.1. Skill Demonstration

### **Criteria**

- 1.1. student establishes proper depth and width of planting hole for specific plant
- 1.2. student establishes proper spacing of specific plant
- 1.3. student determines correct calculations for quantities of plants

### **Learning Objectives**

- 1.a. Demonstrate the planting of one tree
- 1.b. Calculate the quantities of plants needed for a defined space
- 1.c. Demonstrate the planting of one shrub
- 1.d. Demonstrate the planting of annuals

## **2. Demonstrate safe operation of driver operated landscape equipment**

### **Assessment Strategies**

- 2.1. Skill Demonstration

### **Criteria**

- 2.1. student performs pre-operation inspection of equipment
- 2.2. student acknowledges safety risks and safety precautions prior to operation
- 2.3. student operates skid steer loader in safe and efficient manner
- 2.4. student operates landscape tractor in safe and efficient manner
- 2.5. student operates truck with trailer in safe and efficient manner

### **Learning Objectives**

- 2.a. Perform visual inspection of equipment prior to operation
- 2.b. identify proper fluid levels for equipment
- 2.c. Demonstrate proper operational procedures for equipment

## **3. Demonstrate safe operation of hand held power tools**

### **Assessment Strategies**

- 3.1. Skill Demonstration

### **Criteria**

- 3.1. student performs pre-operation inspection of equipment.
- 3.2. student acknowledges safety risks and safety precautions prior to operation.
- 3.3. student operates walk behind cultivator in safe and efficient manner
- 3.4. student operates bed edger in safe and efficient manner

### **Learning Objectives**

- 3.a. Complete visual inspection of equipment prior to operation
- 3.b. identify proper fluid levels and/or battery charge for equipment
- 3.c. Demonstrate proper operational procedures for equipment

## **4. Demonstrate safe operation of hand tools**

### **Assessment Strategies**

- 4.1. Skill Demonstration

### **Criteria**

- 4.1. student completes tool inspection prior to starting landscape task
- 4.2. student repairs, sharpens, cleans, and oils hand tools
- 4.3. student demonstrates proper use of tool

### **Learning Objectives**

- 4.a. Complete visual inspection of tools prior to removal from shop
- 4.b. identify proper tool for assigned task
- 4.c. Report damaged tools that need repair or tools that need to be replaced

## **5. Demonstrate knowledge of safety measures utilized in landscape maintenance practices**

### **Assessment Strategies**

- 5.1. Skill Demonstration

**Criteria**

- 5.1. student identifies proper handling protocol for hazardous materials
- 5.2. student identifies proper posting and handling of Material Safety Data Sheets
- 5.3. student identifies proper Personal Protection Equipment needed for safety in landscape maintenance

**Learning Objectives**

- 5.a. identify safety concerns of handling of hazardous materials and hazardous material spills
- 5.b. identify proper posting and storage of Material Safety Data Sheets
- 5.c. identify location and selection of proper Personal Protection Equipment for safety in landscape maintenance

**6. Demonstrate knowledge of interpretation of landscape drawings****Assessment Strategies**

- 6.1. Skill Demonstration

**Criteria**

- 6.1. student reads and interprets all drawing symbols correctly
- 6.2. student interprets type and purpose of drawing
- 6.3. student correctly identifies all plants by common name and botanical names on drawings

**Learning Objectives**

- 6.a. differentiate all symbols on drawings
- 6.b. interpret scale of drawing
- 6.c. distinguish all symbols and plant labels, including common and botanical names, on drawings