

# HORT 401F: LANDSCAPE CERTIFICATION: ORNAMENTAL MAINTENANCE

## Foothill College Course Outline of Record

Heading	Value
<b>Units:</b>	0
<b>Hours:</b>	12 lecture per quarter (12 total per quarter)
<b>Degree &amp; Credit Status:</b>	Non-Degree-Applicable Non-Credit Course
<b>Foothill GE:</b>	Non-GE
<b>Transferable:</b>	None
<b>Grade Type:</b>	Non-Credit Course (Receives no Grade)
<b>Repeatability:</b>	Unlimited Repeatability

## Student Learning Outcomes

- Identify common landscape plant species.
- Prune common landscape plant species.

## Description

General subjects related to certification with the California Landscape Contractors Association. Topics include ornamental horticulture maintenance principles, irrigation principles, irrigation components, maintenance calculations, plant identification review, controller programming, lateral repair and head adjustment, tree planting and staking, pruning, safe operation of landscape maintenance equipment. This course is intended for students seeking Certified Landscape Technician certification.

## Course Objectives

The student will be able to:

- List ornamental horticultural principles.
- List irrigation principles.
- Identify irrigation components.
- Perform maintenance calculations.
- Identify plant material.
- Program an irrigation controller.
- Repair irrigation laterals and adjust head placement.
- Plant and stake trees.
- Prune ornamental landscape plants.
- Describe safe operation of landscape maintenance equipment.

## Course Content

- List ornamental horticultural principles.
  - Determine goals for landscape maintenance.
  - Create a budget for landscape maintenance.
  - Identify standards of quality for landscape maintenance.
- List irrigation principles.
  - Describe the purpose of irrigation.
  - Identify the types of irrigation.
  - Match irrigation types to plant needs.
  - Describe the methods behind water conservation.

- Identify irrigation components.
  - Identify irrigation supply and distribution lines.
  - Identify irrigation control equipment.
  - Identify irrigation valves and heads.
- Perform maintenance calculations.
  - Perform linear, perimeter, area and volume calculations.
  - Convert volumes to material quantities.
  - Order materials based on calculations.
- Identify plant material.
  - Identify landscape trees and shrubs.
  - Identify landscape ground covers, vines, perennials and decorative grasses.
- Program an irrigation controller.
  - Create irrigation zones.
  - Set irrigation times for zones.
  - Set irrigation cycles for zones.
- Repair irrigation laterals and adjust head placement.
  - Identify damage and leading irrigation laterals.
  - Repair irrigation laterals.
  - Identify misdirected irrigation heads.
  - Adjust irrigation heads to proper locations.
- Plant and stake trees.
  - Install landscape trees.
  - Stake landscape trees.
  - Identify other post-planting care required for planted trees.
- Prune ornamental landscape plants.
  - Assess pruning needs of landscape plants.
  - Describe appropriate pruning cuts for landscape plants.
  - Direct pruning of landscape plants for maximum health and esthetics.
- Describe safe operation of landscape maintenance equipment.
  - Describe the safe operation of a chainsaw.
  - Describe the safe operation of a power blower.
  - Describe the safe operation of landscape maintenance hand tools.

## Lab Content

Not applicable.

## Special Facilities and/or Equipment

- Classroom with multi-media equipment.
- Outdoor area with open space to view equipment operation.
- Horticulture equipment and vehicles.

## Method(s) of Evaluation

Methods of Evaluation may include but are not limited to the following:

- Objective written exams.
- Descriptions of field practices.
- Written reports on horticultural topics.

## Method(s) of Instruction

Methods of Instruction may include but are not limited to the following:

- Lecture from instructor.
- Lecture from guest speakers.
- Observe participatory demonstrations.
- Discussion with groups and students in class.

## **Representative Text(s) and Other Materials**

Landscape Training Manual for Installation. Professional Landcare Network (PLANET), 2017.

Study manual required for training courses.

## **Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments**

- A. Reading 10-25 pages per week from assigned text.
- B. Reading handouts and website material.
- C. Web and library research.
- D. Writing specifications for ornamental landscape maintenance.

## **Discipline(s)**

Ornamental Horticulture