

# HORT 80J: LANDSCAPE CERTIFICATION: TURF MANAGEMENT

## Foothill College Course Outline of Record

Heading	Value
<b>Units:</b>	1
<b>Hours:</b>	1 lecture per week (12 total per quarter)
<b>Advisory:</b>	Completion of or concurrent enrollment in HORT 80E strongly advised.
<b>Degree &amp; Credit Status:</b>	Degree-Applicable Credit Course
<b>Foothill GE:</b>	Non-GE
<b>Transferable:</b>	CSU
<b>Grade Type:</b>	Letter Grade Only
<b>Repeatability:</b>	Not Repeatable

## Student Learning Outcomes

- Describe proper turf maintenance procedures
- Describe proper turf irrigation practices.

## Description

General subjects related to certification with the California Landscape Contractors Association. Topics include irrigation principles, irrigation components, turfgrass principles, performing turfgrass calculations, basic controller programming, lateral repair and head adjustment, safe operation of power blower, 21" mower, intermediate walk-behind mower, riding mower, edger and trimmer, aerator, and understanding of turf fertilizer. This course is intended for students seeking Certified Landscape Technician certification.

## Course Objectives

The student will be able to:

- Define turfgrass maintenance principles.
- Perform turfgrass maintenance calculations.
- Apply turf fertilizer.
- Describe irrigation principles.
- Identify irrigation components.
- Program controllers.
- Perform lateral repair and head adjustment.
- Safely operate turf equipment.

## Course Content

- Turfgrass maintenance principles.
  - Describe the goals of a turfgrass installation.
  - Identify the maintenance techniques required for turf.
  - Describe the schedule of turfgrass maintenance techniques.
- Turfgrass maintenance calculations.
  - Perform linear, perimeter, area and volume calculations.
  - Calculate materials quantities for turf applications.
    - Fertilizer.
    - Topdressing.
    - Seed and sod.

- Turf fertilizer.
  - Identify turf nutrient requirements.
  - Describe turf fertilizers.
  - Select appropriate fertilizer for turf use.
- Irrigation principles.
  - Describe the purpose of irrigation.
  - Identify the types of irrigation.
  - Match irrigation types to plant needs.
  - Describe the methods behind water conservation.
- Irrigation components.
  - Identify irrigation supply and distribution lines.
  - Identify irrigation control equipment.
  - Identify irrigation valves and heads.
- Controller programming.
  - Create irrigation zones.
  - Set irrigation times for zones.
  - Set irrigation cycles for zones.
- Lateral repair and head adjustment.
  - Identify damage and leading irrigation laterals.
  - Repair irrigation laterals.
  - Identify misdirected irrigation heads.
  - Adjust irrigation heads to proper locations.
- Safe operation of turf equipment.
  - Describe types of equipment used to maintain turf.
  - Describe the safe operation of:
    - Power blower.
    - 21" mower.
    - Intermediate walk behind mower.
    - Edger and trimmer.
    - Aerator.

## 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 turf maintenance.

## **Discipline(s)**

Ornamental Horticulture