

COURSE OUTLINE**Course:** 10317 LANDSCAPE MAINTENANCE**Total Course Hours:** 360.00**CBEDS Title:** HORTICULTURE AND THE ENVIRONMENT**CBEDS #:** 4050**Job Title(s):**

Soil Specialist, Chemical Applicator, Arborist (pruner), Irrigation Specialist, Landscape Designer

Prerequisites:**Course Description:**

This course is designed to teach students the skills necessary to hold an entry level job in the field of landscaping. This course demonstrates the use of planning and effectively designing, installing, and maintaining a landscape for the commercial industry. Skills are taught in plant classification, principles of plant physiology and growth, plant reproduction, pathology and pests, plant nutrition, soil and water management, pruning methods, turf grass, and equipment management and safety. Landscape design is also covered which includes site analysis, structures, surveying, and measurement. Integrated throughout the course are Academic and CTE standards, which include safety, communication, technology, ethics, career planning and other employability skills.

Hours	
Class	OJT

Occupational Competencies

1-7 on the Course Outline are generic to all BVROP courses and include the BVROP Student Outcomes

3.00	3.00	1	<u>ORIENTATION</u>	<ul style="list-style-type: none"> A Identifies and discusses course objectives and competencies. B Discusses ROP Student Outcomes. C Explains class attendance and behavior objectives.
3.00	3.00	2	<u>HEALTH, SAFETY AND ENVIRONMENTAL MANAGEMENT</u>	<ul style="list-style-type: none"> A Describes accident procedure. B Demonstrates appropriate safety practices (e.g. bending, lifting, etc.). C Demonstrates knowledge of classroom procedures and drills (e.g. earthquake, fire and emergency).
3.00	3.00	3	<u>ETHICS AND LEGAL RESPONSIBILITIES</u>	<ul style="list-style-type: none"> A Defines sexual harassment and discusses tactics for handling harassment situations. B Applies appropriate workplace behavior and standards.
3.00	3.00	4	<u>LEADERSHIP AND TEAMWORK</u>	<ul style="list-style-type: none"> A Describes the characteristics and benefits of teamwork and leadership. B Demonstrates ability to make appropriate decisions. C Works well with others and gives/takes constructive criticism.

Hours	
Class	OJT

15.00		5 <u>CAREER PLANNING</u> A Prepares a finished, professional portfolio showing the best work that has been completed during the class. B Locates job opportunities through the use of want-ads and placement agencies. C Visits at least one facility related to area of training and observes jobs performed. D Completes a job application correctly. E Prepares for and critiques a simulated employment interview. F Discusses employee benefits and rights as related to the specific occupational job area including gender equity and equal opportunity. G Identifies acceptable procedures to leave a job. H Applies for a scholarship. I Completes a professional resume. J Demonstrates appropriate personal grooming and dress.
3.00	3.00	6 <u>COMMUNICATION</u> A Uses effective workplace conversation. B Reads and interprets written information and directions. C Practices various forms of written communication appropriate to the occupation.
5.00	5.00	7 <u>STUDENT OUTCOMES</u> A Demonstrates Occupational Specific, Communication and Critical Thinking Skills B Demonstrates Responsible Work Ethics C Demonstrates Career/Employment Literacy D Demonstrates Effective Use of Technology
30.00	5.00	8 <u>PLANT IDENTIFICATION AND CLASSIFICATION</u> A Defines botanical nomenclature and plant parts needed for identification B Defines common shrubs, trees, groundcovers, vines, annuals, perennials and indoor plants C Defines plants environmental requirements
25.00	5.00	9 <u>SOILS</u> A Identifies soil types and defines soil terminology B Describes soil testing procedures C Identifies typical soil problems D Describes common soil amendments and top dressings
20.00	5.00	10 <u>FERTILIZATION</u> A Defines essential nutrients B Describes and identifies essential nutrients C Demonstrates application procedures
10.00	5.00	11 <u>PRUNING</u> A Recognizes reasons for pruning B Exhibits proper pruning techniques utilizing safe pruning procedures C Describes green waste/recycling and proper compost and mulching techniques.
10.00	5.00	12 <u>TURF GRASS MAINTENANCE</u> A Demonstrates safe mowing, edging and string trimming procedures B Demonstrates proper fertilization and irrigation management C Describes renovation techniques and temporary winter turfs
40.00	20.00	13 <u>PLANTING PROCEDURES</u> A Describes and demonstrates tree and shrub planting procedures and their establishment B Describes and demonstrates turf grass and groundcover installation and their establishment C Describes and demonstrates site preparation for lawn, tree, shrub and groundcover installation D Performs internships to demonstrate landscape abilities

Hours	
Class	OJT

30.00	5.00
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14 TOOLS/EQUIPMENT

- A Describes and demonstrates various uses for commonly used hand tools
- B Describes and demonstrates the safe use of hand tools and power tools

20.00	5.00
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15 IRRIGATION PRACTICES AND NEW TECHNOLOGY

- A Describes different types of sprinkler systems and their uses
- B Identifies the various components of a sprinkler system and their uses
- C Operates and programs mechanical and digital time clocks
- D Describes the cost of sprinkler systems and develops a cost estimate for a standard sprinkler system
- E Describes and demonstrates proper sprinkler, valve and time clock maintenance and troubleshooting

30.00	5.00
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16 LANDSCAPE DESIGN

- A Demonstrates design principles
- B Demonstrates the ability to draw plans to scale
- C Demonstrates the ability to utilize a CAD computer program
- D Identifies plant and turf needs as well as tree selection.
- E Identifies irrigation needs
- F Identifies uses of manmade features, water features and dry streambeds for water percolation.
- G Defines small scale and low maintenance designs
- H Defines interior scape and career opportunities in interior scaping

10.00	5.00
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17 LANDSCAPE FEATURES

- A Describes basic construction and costs of walks, steps, walls, fences and permeable surfaces.
- B Describes installation of and forms of outdoor lighting and cost of installation
- C Demonstrates the ability to install hardscape features.

10.00	5.00
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18 RECORD KEEPING

- A Demonstrates record keeping
- B Defines record keeping vocabulary
- C Prepares income summaries and budgets
- D Prepares accounts receivables and charge accounts
- E Identifies marketing strategies and public relations
- F Demonstrates salesmanship and performs estimates

TOTAL HOURS

Class	OJT	Course
270.00	90.00	360.00