

## LANDSCAPE HORTICULTURALIST APPRENTICESHIP COURSE SUMMARIES

### **COURSE LGA3406: EQUIPMENT AND TOOLS**

Students use and operate tools and machinery to perform various landscaping jobs.

*Prerequisite: LGA3900: Apprenticeship Safety*

### **COURSE LGA3411: VEHICLE TRANSPORTATION AND OPERATION**

Students develop basic skills to operate and maintain hydraulics, heavy equipment, and transportation vehicles to safely perform various landscaping jobs. Students also demonstrate how to transport equipment and materials.

*Prerequisite: LGA3900: Apprenticeship Safety*

### **COURSE LGA3416: SITE MAINTENANCE**

Students develop the basic skills to conduct site assessments, perform site grading, and install drainage systems at landscaping jobs.

*Prerequisite: LGA3900: Apprenticeship Safety*

### **COURSE LGA3425: PLANT TAXONOMY**

Students develop basic skills of plant taxonomy to identify and maintain plants used for landscaping.

*Prerequisite: LGA3900: Apprenticeship Safety*

### **COURSE LGA3435: BOTANY 1**

Students develop basic skills related to botany, such as identifying the functions of plant cells and tissues, plant stems, and plant leaves.

*Prerequisite: LGA3900: Apprenticeship Safety*

### **COURSE LGA3440: BOTANY 2**

Students develop basic skills related to botany, such as identifying the functions of plant roots and plant flowers, explaining fruit characteristics, and describing the life cycles of plants.

*Prerequisite: LGA3435: Botany 1*

### **COURSE LGA3441: ECOSYSTEMS**

Students develop basic skills for using plants from grassland and parkland ecosystems in landscaping jobs.

*Prerequisite: LGA3900: Apprenticeship Safety*

### **COURSE LGA3446: ENVIRONMENTAL STEWARDSHIP AND WATER QUALITY**

Students develop and use the basic principles of environmental stewardship. Students develop basic skills for the stewardship and management of water and water quality.

*Prerequisite: LGA3900: Apprenticeship Safety*

### **COURSE LGA3451: SOIL MANAGEMENT 1**

Students develop basic skills related to soils, including formation, components, and properties.

*Prerequisite: LGA3900: Apprenticeship Safety*

**COURSE LGA3456: SOIL MANAGEMENT 2**

Students develop basic skills related to soil, including biological properties, sampling, and fertility of soils.

*Prerequisite:* LGA3451: Soil Management 1

**COURSE LGA3461: SOILLESS GROWING MEDIA**

Students describe the use of soilless media and demonstrate how to use soilless media.

*Prerequisite:* LGA3900: Apprenticeship Safety

**COURSE LGA3466: TURFGRASS**

Students install and maintain turfgrass used in landscaping.

*Prerequisite:* LGA3900: Apprenticeship Safety

**COURSE LGA3471: FERTILIZATION**

Students create a landscape fertilization program and apply fertilizer used in landscaping.

*Prerequisite:* LGA3900: Apprenticeship Safety

**COURSE LGA3473: EXTERIOR SOFTSCAPE MAINTENANCE**

Students perform exterior softscape maintenance.

*Prerequisite:* LGA3900: Apprenticeship Safety

**COURSE LGA3475: LGA PRACTICUM A**

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums, and other experiences.

*Prerequisite:* None

**COURSE LGA3480: LGA PRACTICUM B**

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums, and other experiences.

*Prerequisite:* None

**COURSE LGA3485: LGA PRACTICUM C**

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums, and other experiences.

*Prerequisite:* None

**COURSE LGA3490: LGA PRACTICUM D**

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums, and other experiences.

*Prerequisite:* None

**COURSE LGA3900: APPRENTICESHIP SAFETY**

Students develop the knowledge and skills required to maintain a personal health and safety plan; identify the steps for obtaining a journey person certificate; and describe how to apply legislation, regulations, and practices of the industry.

*Prerequisite:* None