

Specific Competencies and Skills Tested in this Assessment:

General Knowledge

- Describe care of plants
- Identify parts of a plant and their purpose/function
- Identify types of soils and fertilizers
- List landscaping safety standards
- Demonstrate knowledge of plant classification
- Define landscaping terminology
- Describe career opportunities and development



Pest Management

- Identify pests and diseases
- Demonstrate knowledge of pest management safety
- Identify characteristics and anatomy of insects and pests
- Identify and control weeds
- Control pests

Fundamentals of Irrigation

- Describe characteristics of irrigation lines
- Describe the function of water control devices
- Identify types of watering techniques

Basic Nursery/Greenhouse Skills

- Describe methods of propagation
- Identify growing structures
- Describe American Nursery Standards
- Explain environmental management of greenhouses

Specific Competencies and Skills continued:

Horticulture Business and Retailing

- Compute cost of product
- Determine mark-up and profit
- Measure for quantity needed
- Demonstrate salesmanship techniques
- Maintain business records

Landscape - Design

- Identify landscape areas (private, public, service areas)
- Describe selection and methods of planting
- Compute square footage of a designated area
- Stake out a site plan
- Demonstrate knowledge of site analysis



Landscape - Construction

- Describe methods of grading
- Identify tools and equipment
- Construct water features
- Construct decks, patios, and walkways
- Plant a container-grown tree

Landscape and Turf - Maintenance

- Describe maintenance of equipment
- Inspect and operate power equipment
- Compare types of grasses
- List types of mowers and their uses
- Identify golf course features and maintenance

Arboriculture

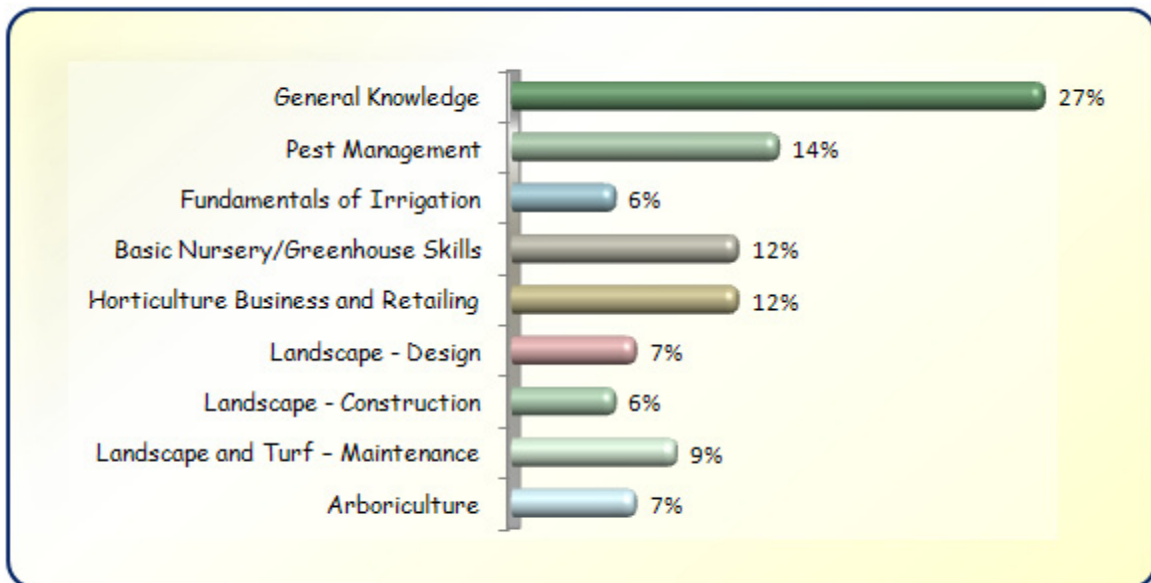
- Identify tree growth characteristics
- Explain treatment of tree disorders
- Explain proper pruning techniques

Written Assessment:

Administration Time: 3 hours

Number of Questions: 138

Areas Covered:



Sample Questions:

Air-pollution damage to plants is characterized by

- A. brown veins with green edges
- B. chlorosis on the entire leaf
- C. browning of the leaf margins
- D. purple blotches near the mid-vein

Zones refer to

- A. the main line
- B. a set of valves
- C. a set of heads on one valve
- D. a set of control boxes

Pruning shears are ideal for cutting branches that are _____ in diameter.

- A. 1/2 inch
- B. 1 inch
- C. 1-1/2 inches
- D. 2 inches

Keeping a tool clean and sharp will increase its

- A. appearance
- B. usefulness and durability
- C. sale price
- D. productivity

Pruning is a process by which

- A. parts of plants are cut and removed
- B. plants are placed in another location
- C. fruit is removed from plants
- D. fruit is thinned to encourage better growth



Performance Assessment:

Administration Time: 2 hours

Number of Jobs: 5

Areas Covered:

23% Identify and Control Pests

Inspection procedures, accuracy of identification, use of reference guide for pesticides, form completion, and timeliness of job.

16% Inspect and Operate Power Equipment

Procedures for checking equipment and hazards, procedures for starting and stopping, wore appropriate personal protective equipment, and timeliness of job.

25% Plant a Container-Grown Shrub

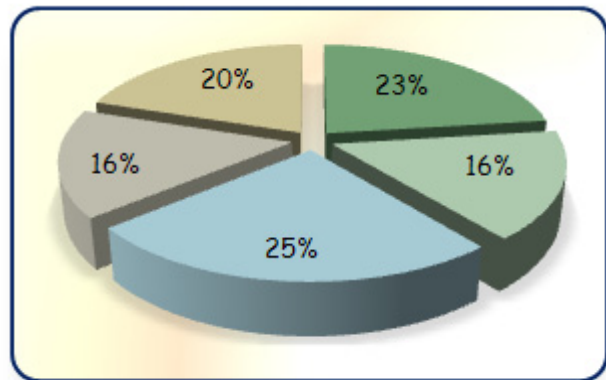
Procedures for digging hole, preparation of backfill, procedures for planting shrub and backfilling hole, clean-up of area, and timeliness of job.

16% Prune a Tree and an Evergreen Shrub

Identification of cuts to be made on tree and shrub, use of pruning shears and saw, quality of cut made with pruning shears and saw, and timeliness of job.

20% Stake out a Site-Plan—Entrance Walkway

Choice of scale and color-coded or labeled plant stakes, layout of walkway and entrance landing, placement of plant stakes and of sidewalk and front entrance, and timeliness of job.



Sample Job: Identify and Control Pests

Maximum Time: 20 minutes

Participant Activity: The participant will go to the designated area and inspect the host plants for pest problems, identify the plant and pest problems from each specimen, consult approved pest control recommendations or production manual for appropriate method of control, complete the chart that is provided and indicate diagnosis, method of treatment, and rate of application.

