South Carolina CTE

Horticulture for the Workplace II

Supervised Experience in Agriculture A

1 Lesson 1—Understanding Horticulture A.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Explain how SAE records are organized. A.1.1
2. Identify the procedures to making entries in the SAE records. A.1.2
3. Explain how to summarize and analyze the SAE records. A.1.3

2 Lesson 2—Exploring Career Opportunities in Horticulture A.2

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Identify the factors that should be considered in expanding an SAE program. A.2.1
2. Explain how placement and ownership SAE programs may be expanded. A.2.2

Developing Leadership Skills in Agriculture B

1 Lesson 1—Planning and Organizing an FFA Meeting B.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Explain how to plan a meeting and develop the order of business. B.1.1
2. Describe how to set up the meeting room. B.1.2
3. Explain the parliamentary procedure used in an FFA meeting. B.1.3

2 Lesson 2—Developing an Awareness for Your Community B.2

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Describe the meaning and importance of community service. B.2.1
2. List and identify community service organizations. B.2.2
3. Explain how FFA members can be involved with community improvement and development. B.2.3

esson 3—State FFA Degree B.3

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Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. List the requirements for the State FFA Degree. B.3.1
2. Explain how a FFA member can obtain the State FFA Degree. B.3.2

Residential Landscape Design C

1 Lesson 1—Analyzing the Residential Landscape C.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Describe how to determine the client's needs and desires. C.1.1
2. Explain the purpose of a site analysis plan. C.1.2
3. Identify the purpose of a base plan. C.1.3
4. Describe the components of a site analysis plan. C.1.4

2 Lesson 2—Designing the Landscape Areas C.2

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Describe the major areas of a residential landscape. C.2.1
2. Identify the activities that occur in each of the areas. C.2.2
3. Explain how to create "rooms" in the outdoor landscape. C.2.3

3 Lesson 3—Beginning the Design Process C.3

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Demonstrate the use of a scale. C.3.1
2. Describe how activities can be organized into goose egg plans. C.3.2
3. Explain the importance of bed patterns. C.3.3
4. Develop bed patterns for a landscape. C.3.4

4 Lesson 4—Applying the Principles of Landscape Design C.4

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Describe the basic principles of Landscape Design. C.4.1
2. Explain how to use the principles of Landscape Design in landscaping. C.4.2
3. Design a residential landscape demonstrating the principles of Landscape design. C.4.3

5 Lesson 5—Using Annuals and Perennials in the Landscape C.5

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Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Identify the difference between an annual and a perennial. C.5.1
2. Explain how to use annuals and perennials in the landscape. C.5.2
3. Describe how to design a flower garden. C.5.3

6 Lesson 6—Choosing Plants for the Landscape C.6

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Define the categories of landscape plants. C.6.1
2. Describe why plant names are important. C.6.2
3. Identify 50 common landscape plants used in the southeast C.6.3
4. Identify factors to consider when selecting woody plant material for the landscape. C.6.4
5. Explain how the environment affects plant selection. C.6.5

7 Lesson 7—Putting the Plan on Paper C.7

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Demonstrate how to draw plants on the landscape plan. C.7.1
2. Describe how to label a landscape plan. C.7.2
3. Explain how to render the landscape plan. C.7.3
4. Demonstrate how to draw a landscape plan utilizing a computer aided drafting program. C.7.4

8 Lesson 8—Pricing the Landscape Plan C.8

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Identify the difference between an estimate and a bid. C.8.1
2. Describe landscape specifications. C.8.2
3. Prepare a cost estimate for the landscape plan. C.8.3

9 Lesson 9—Managing the Landscape Business C.9

Skip to main content

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Define the landscape industry. C.9.1
2. Describe the difference between a landscape designer and a landscape architect. C.9.2
3. Identify the duties of a landscape contractor. C.9.3
4. Identify the duties of landscape maintenance people. C.9.4
5. Describe the use of computers in the landscape industry. C.9.5

Landscape Installation D

1 Lesson 1—Preparing the Landscape Site D.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Read a site analysis or landscape plan. D.1.1
2. Explain how to interpret a landscape plan. D.1.2
3. Describe how to protect existing site features. D.1.3
4. Describe how to remove site features that are unwanted. D.1.4
5. Analyze and prepare soil for planting. D.1.5

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2 Lesson 2—Installing and Maintaining Irrigation Systems D.2

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Obtain site information and determine irrigation requirements. D.2.1
2. Determine water capacity and pressure. D.2.2
3. Select sprinklers and establish spacing ranges. D.2.3
4. Establish sprinkler circuits and install valves. D.2.4
5. Locate controllers and size wiring. D.2.5
6. Prepare the final irrigation plan. D.2.6

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3 **Lesson 3—Installing Woody Landscape Plants, Ground Covers, Perennials, and Annuals** D.3

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Identify the different methods of harvesting plant materials used by the nursery trade. D.3.1

2 Prepare for planting trees, shrubs, and ground covers. D.3.2

3 Outline proper planting techniques. D.3.3

4 Describe the methods of planting annuals and perennials. D.3.4

5 Understand the importance of the use of mulch, landscape fabric, antitranspirants, and climate. D.3.5

4 **Lesson 4—Selecting and Establishing Turfgrass** D.4

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Explain how to select the proper turfgrass. D.4.1

2 Describe how to properly prepare the planting site. D.4.2

3 Describe how to seed the planting site. D.4.3

4 Discuss how to properly install sod. D.4.4

5 Explain the proper installation of plugs. D.4.5

5 **Lesson 5—Installing Patios, Walks, and Decks** D.5

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Describe the types of materials used in paving. D.5.1

2 Explain how to select patio materials. D.5.2

3 Describe how to install a walkway or patio. D.5.3

4 Discuss proper deck installation procedures. D.5.4

6 **Lesson 6—Installing Fences and Walls** D.6

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Explain the reasons for installing a fence or wall. D.6.1

2 Describe the different parts of a fence. D.6.2

3 Discuss how to properly install a fence. D.6.3

4 Describe the different materials used to build a retaining wall. D.6.4

5 Explain how to install a retaining wall. D.6.5

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esson 7—Incorporating Lights in the Landscape D.7

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Identify the major lighting techniques available for the garden. D.7.1

2 Explain the difference between high- and low-voltage. D.7.2

3 Describe the proper installation of low voltage lighting systems. D.7.3

8 Lesson 8—Incorporating Water Features in the Landscape D.8

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Identify the different materials needed to create a water feature. D.8.1

2 Describe the proper technique for creating a small pond. D.8.2

3 Explain how to construct a waterfall feature. D.8.3

Landscape Maintenance E

1 Lesson 1—Watering, Fertilizing, and Mulching Landscape Plants E.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Describe how the biology of woody plants influences maintenance practices. E.1.1

2 Explain recommended watering practices for woody landscape plants. E.1.2

3 Explain guidelines for fertilizing woody landscape plants. E.1.3

4 Describe how to select and apply mulches to the landscape. E.1.4

2 Lesson 2—Maintaining Turfgrass Areas E.2

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Explain good fertilization practices for turf. E.2.1

2 Describe good mowing practices. E.2.2

3 Describe other maintenance practices for turfgrass. E.2.3

4 Explain practices for controlling weeds in turf. E.2.4

3 Lesson 3—Pruning Landscape Plants E.3

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Explain why woody landscape plants are pruned. E.3.1

2 Describe how to properly prune trees. E.3.2

3 Describe various pruning techniques used with shrubs. E.3.3

4 Identify tools used in pruning woody landscape plants. E.3.4

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esson 4—Pricing Landscape Maintenance Work E.4

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Describe how to estimate landscape maintenance costs. E.4.1

3 Describe some advantages and disadvantages of using computer spreadsheets in the landscape maintenance business. E.4.2

Using and Maintaining Tools and Equipment F

1 Lesson 1—Using Hand Tools F.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Discuss the type of digging and grading hand tools and their use. F.1.1

2 Explain the major types of pruning and cutting hand tools and their use. F.1.2

3 Describe the types and uses of miscellaneous hand tools in horticulture. F.1.3

4 Discuss common hand tools used in horticulture. F.1.4

5 Explain how to maintain hand tools. F.1.5

2 Lesson 2—Using Power Tools and Small Landscape Maintenance Equipment F.2

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Identify common turf maintenance equipment and its use. F.2.1

2 Demonstrate proper use of common landscape installation and maintenance tools and equipment. F.2.2

3 Demonstrate proper maintenance of power tools and equipment. F.2.3

3 Lesson 3—Identifying Large Landscape Maintenance Equipment F.3

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1 Describe the types of tractors and transport equipment used in landscaping. F.3.1

2 Explain cutting and digging equipment used in landscaping projects. F.3.2

3 Describe tillage and soil moving equipment used in landscaping. F.3.3

4 Discuss the maintenance of large landscape equipment. F.3.4

4 Lesson 4—Maintaining Small Engines F.4

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Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Describe equipment maintenance schedules. F.4.1
2. Explain how to service intake/exhaust and fuel systems. F.4.2
3. Discuss the maintenance of cooling and lubrication systems. F.4.3
4. Discuss the servicing of compression and ignition systems. F.4.4
5. Describe how to prepare equipment for storage. F.4.5

Exploring the Floral Industry G

1 Lesson 1—Exploring the International Flower Market (Include U.S.) G.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Describe the scope of the international flower market in the florist industry. G.1.1
2. Explain the international flower distribution system. G.1.2

Fresh Flowers H

1 Lesson 1—Caring for Fresh Flowers and Foliage H.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Explain the basic requirements of cut flowers. H.1.1
2. Understand the causes of deterioration and death of flowers. H.1.2
3. Describe the steps of effective conditioning of flowers and foliage. H.1.3
4. Explain the importance of using floral preservatives. H.1.4
5. Learn about commercial packing and shipping. H.1.5

Floral Arranging and design I

1 Lesson 1—Understanding the Principles of Floral Design I.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Define floral design. I.1.1
2. List the principles of design. I.1.2
3. Explain the concept of proportion. I.1.3
4. Explain how the concept of balance is applied to floral design. I.1.4
5. Describe how rhythm is applied in floral work. I.1.5
6. Explain how the principles of dominance and focal point are used in floral design. I.1.6

2 Lesson 2—Understanding the Principles of Floral Design I.2

Skip to main content

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. List and describe the major forms (or shapes) used in floral design. I.2.1
2. Explain how space and depth enhance floral design. I.2.2
3. Describe the importance of texture in floral design. I.2.3
4. Explain how color influences floral work. I.2.4

3 Lesson 3—Understanding the Design Elements I.3

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. List and describe the major forms (or shapes) used in floral design. I.3.1
2. Explain how space and depth enhance floral design. I.3.2
3. Describe the importance of texture in floral design. I.3.3
4. Explain how color influences floral work. I.3.4

4 Lesson 4—Designing Corsages and Boutonnieres I.4

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Identify and describe supplies needed to create a corsage. I.4.1
2. Describe corsage design mechanics and techniques. I.4.2
3. Identify and describe styles of corsages and boutonnieres. I.4.3
4. Discuss proper placement and pinning of corsages and boutonnieres. I.4.4

5 Lesson 5—Designing Basic Floral Work I.5

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Identify and describe supplies and tools needed in floral work. I.5.1
2. Explain how to design bud vases and vase arrangements. I.5.2
3. Explain basic geometric designs. I.5.3
4. Define naturalistic style design. I.5.4
5. Describe how to foil a potted plant. I.5.5

6 Lesson 6—Designing Centerpieces and Holiday Arrangements I.6

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Identify types of centerpieces. I.6.1
2. Learn how to take a centerpiece order. I.6.2
3. Describe floral arrangements for holidays. I.6.3

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7 Lesson 7—Designing Wedding Pieces I.7

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Describe typical wedding needs. I.7.1
2. Explain the process of designing a wedding I.7.2
3. Identify and describe types of wedding bouquets. I.7.3
4. Explain how to service a wedding. I.7.4

8 Lesson 8—Designing Sympathy Arrangements I.8

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Explain the importance of sympathy flowers. I.8.1
2. Identify and describe typical sympathy pieces. I.8.2

9 Lesson 9—Using Everlasting Flowers I.9

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Describe when and how to harvest everlasting flowers. I.9.1
2. Explain the methods of preserving plant materials. I.9.2
3. Describe designing with everlasting plant materials (dried and silk). I.9.3

Business Management J

1 Lesson 1—Pricing Floral Design Work J.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Explain the importance of effective buying. J.1.1
2. Explain how to determine the costs for floral arrangements J.1.2
3. Describe typical pricing strategies. J.1.3

2 Lesson 2—Managing the Floral Shop J.2

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Describe the qualifications to be a florist. J.2.1
2. Describe the types of flower shops. J.2.2
3. Explain the basics about good location and starting a floral shop. J.2.3
4. Describe the importance of marketing, promotion, and sales. J.2.4
5. Describe effective packaging and delivery. J.2.5
6. Explain the major areas of an effective flower shop floor plan. J.2.6

Int Skip to main content **esson 1—Installing Interior Plantscapes** K.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Explain interior plantscaping and its basic design principles. K.1.1
2. Describe basic construction and irrigation techniques used in interior plantscapes. K.1.2
3. Describe safety concerns associated with the installation of large plant materials. K.1.3

2 Lesson 2—Maintaining Interior Plantscapes K.2

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Identify the types of plants commonly used in interiorscapes. K.2.1
2. Explain some of the problems associated with the care of interior plants. K.2.2
3. Describe common tasks associated with plant maintenance. K.2.3

Developing Communication Skills L

1 Lesson 1—Introduction to Communication L.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Define communication and explain its purpose. L.1.1
2. Identify the components of the communication process. L.1.2
3. Identify the five different levels of communication. L.1.3
4. Explain the barriers of successful communication. L.1.4
5. Explain the relationship between communication and leadership. L.1.5

2 Lesson 2—Organizing and Presenting a Persuasive Message L.2

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Explain the steps in preparing a persuasive message. L.2.1
2. Describe delivery techniques in a persuasive message. L.2.2

3 Lesson 3—Using Communication Skills In Appropriate Situations L.3

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Understand the role of communication skills in the workplace. L.3.1
2. Understand how to present a problem to a supervisor. L.3.2
3. Identify the techniques used in requesting information from a supervisor. L.3.3
4. Explain the role of written communication in an agribusiness. L.3.4

Ga Skip to main content **esson 1—Developing Goals** M.1

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Explain the process of goal setting. M.1.1
2. Describe the terms and types of goals. M.1.2
3. Explain some aspects of effective goals. M.1.3

2 Lesson 2—Finding a Job M.2

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Describe information sources for job opportunities. M.2.1
2. Develop a system to evaluate job openings. M.2.2

3 Lesson 3—Applying for a Job M.3

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Explain how to research a job opportunity. M.3.1
2. Describe two methods of applying for a job. M.3.2
3. Identify the common types of information requested on a job application form.. M.3.3

4 Lesson 4—Writing a Résumé and Letter of Application M.4

Student Learning Objective: Instruction in this lesson should result in students achieving the following objectives:

1. Explain the purpose of a résumé. M.4.1
2. List the main items that should be included in a résumé. M.4.2
3. Describe the purpose of a letter of application and its primary M.4.3