

# 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**
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### 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**
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## 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**
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### 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**

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### **3 Lesson 3—State FFA Degree** B.3

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
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## **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
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### **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
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### **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
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### **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

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

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

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## **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

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## **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

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## **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

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## 9 Lesson 9—Managing the Landscape Business C.9

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
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## 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

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### **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

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### **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

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### **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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## 7 Lesson 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
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## 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
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## 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
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### 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
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### 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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#### **4 Lesson 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
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### **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
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#### **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
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#### **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

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#### **4 Lesson 4—Maintaining Small Engines** F.4

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
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#### **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
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#### **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
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#### **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

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

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

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## **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

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## **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

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## **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

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## **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

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## **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

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## **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

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## **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

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## **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
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## **Interior Plantscaping** K

### **1 Lesson 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
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### **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
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## **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

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## **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

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## **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

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## **Gaining Employment** M

### **1 Lesson 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

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### **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

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### **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

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#### **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