

Landscaping 1 (8036)

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A Demonstrating Personal Qualities and Abilities HS.1

- 1 Demonstrate creativity and innovation. HS.1.1
 - 2 Demonstrate critical thinking and problem solving. HS.1.2
 - 3 Demonstrate initiative and self-direction. HS.1.3
 - 4 Demonstrate integrity. HS.1.4
 - 5 Demonstrate work ethic. HS.1.5
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B Demonstrating Interpersonal Skills HS.2

- 6 Demonstrate conflict-resolution skills. HS.2.6
 - 7 Demonstrate listening and speaking skills. HS.2.7
 - 8 Demonstrate respect for diversity. HS.2.8
 - 9 Demonstrate customer service skills. HS.2.9
 - 10 Collaborate with team members. HS.2.10
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C Demonstrating Professional Competencies HS.3

- 11 Demonstrate big-picture thinking. HS.3.11
 - 12 Demonstrate career- and life-management skills. HS.3.12
 - 13 Demonstrate continuous learning and adaptability. HS.3.13
 - 14 Manage time and resources. HS.3.14
 - 15 Demonstrate information-literacy skills. HS.3.15
 - 16 Demonstrate an understanding of information security. HS.3.16
 - 17 Maintain working knowledge of current information-technology (IT) systems. HS.3.17
 - 18 Demonstrate proficiency with technologies, tools, and machines common to a specific occupation. HS.3.18
 - 19 Apply mathematical skills to job-specific tasks. HS.3.19
 - 20 Demonstrate professionalism. HS.3.20
 - 21 Demonstrate reading and writing skills. HS.3.21
 - 22 Demonstrate workplace safety. HS.3.22
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D Examining All Aspects of an Industry HS.4

- 23 Examine aspects of planning within an industry/organization. HS.4.23
 - 24 Examine aspects of management within an industry/organization. HS.4.24
 - 25 Examine aspects of financial responsibility within an industry/organization. HS.4.25
 - 26 Examine technical and production skills required of workers within an industry/organization. HS.4.26
 - 27 Examine principles of technology that underlie an industry/organization. HS.4.27
 - 28 Examine labor issues related to an industry/organization. HS.4.28
 - 29 Examine community issues related to an industry/organization. HS.4.29
 - 30 Examine health, safety, and environmental issues related to an industry/organization. HS.4.30
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E Addressing Elements of Student Life HS.5

- 31 Identify the purposes and goals of the student organization. HS.5.31
 - 32 Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult. HS.5.32
 - 33 Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects. HS.5.33
 - 34 Identify Internet safety issues and procedures for complying with acceptable use standards. HS.5.34
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F Exploring Work-Based Learning HS.6

- 35 Identify the types of work-based learning (WBL) opportunities. HS.6.35
 - 36 Reflect on lessons learned during the WBL experience. HS.6.36
 - 37 Explore career opportunities related to the WBL experience. HS.6.37
 - 38 Participate in a WBL experience, when appropriate. HS.6.38
 - 39 Identify the role of supervised agricultural experiences (SAEs) in agricultural education. HS.6.39
 - 40 Participate in an SAE. HS.6.40
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G Exploring Leadership Opportunities through FFA HS.7

- 41 Identify the benefits and responsibilities of FFA membership. HS.7.41
 - 42 Describe leadership characteristics and opportunities as they relate to agriculture and FFA. HS.7.42
 - 43 Apply for an FFA degree and/or an agricultural proficiency award. HS.7.43
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H Gaining an Overview of the Landscaping Industry HS.8

- 44 Describe the importance of the landscaping and green industry to the Virginia and U.S. economies. HS.8.44
- 45 Research career opportunities related to landscaping. HS.8.45

- 46 Identify opportunities in continuing education, training, licensure, and certification. [HS.8.46](#)
 - 47 Analyze trends in the landscape industry. [HS.8.47](#)
 - 48 Identify professional organizations for the landscaping industry. [HS.8.48](#)
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I Designing the Landscape [HS.9](#)

- 49 Research the historical development of landscape design. [HS.9.49](#)
 - 50 Describe the landscape design process. [HS.9.50](#)
 - 51 Relate the principles of art to landscape design. [HS.9.51](#)
 - 52 Establish a client's landscaping requirements, using a residential inventory survey. [HS.9.52](#)
 - 53 Analyze the landscape site. [HS.9.53](#)
 - 54 Create a landscape plan for a residential or commercial property based on industry standards and recommended practices. [HS.9.54](#)
 - 55 Design the site for function and aesthetics. [HS.9.55](#)
 - 56 Interpret the landscape plan. [HS.9.56](#)
 - 57 Explain the benefits of a landscape irrigation system. [HS.9.57](#)
 - 58 Explain the benefits of a landscape lighting system. [HS.9.58](#)
 - 59 Draw a landscape design, using industry graphics and standards. [HS.9.59](#)
 - 60 Present the landscape plan. [HS.9.60](#)
 - 61 Develop a landscaping portfolio. [HS.9.61](#)
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J Gaining an Overview of the Importance of Soil and Plant Science in the Landscaping Industry [HS.10](#)

- 62 Analyze a soil sample. [HS.10.62](#)
 - 63 Examine best management practices for improving soil health. [HS.10.63](#)
 - 64 Develop soil amendment recommendations for nursery and landscape plants. [HS.10.64](#)
 - 65 Identify nursery and landscape plants. [HS.10.65](#)
 - 66 Select plants for the landscape. [HS.10.66](#)
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K Constructing the Landscape [HS.11](#)

- 67 Demonstrate the use of landscape tools and related equipment. [HS.11.67](#)
- 68 Describe the guidelines for personal protective equipment (PPE) in the landscaping industry. [HS.11.68](#)
- 69 Identify common injuries in the landscaping industry. [HS.11.69](#)

- 70 Explain pertinent information from a container label and/or safety data sheet (SDS) according to the Environmental Protection Agency (EPA), Worker Protection Standard (WPS), and Occupational Safety and Health Administration (OSHA) regulations. [HS.11.70](#)
 - 71 Describe emergency procedures in the landscaping workplace. [HS.11.71](#)
 - 72 Identify landscaping tools and equipment. [HS.11.72](#)
 - 73 Manage equipment and machinery to minimize energy consumption, maximize function, and protect water and other natural resources. [HS.11.73](#)
 - 74 Adhere to safe operation procedures for hand tools, power tools, and landscaping or horticultural equipment and machinery. [HS.11.74](#)
 - 75 Demonstrate the safe operation and use of landscape tools and related equipment. [HS.11.75](#)
 - 76 Amend the soil based on a soil analysis and recommendations for the types of plants (i.e., annuals, biennials, perennials, bulbs, evergreens, coniferous, deciduous, vines, groundcovers, aquatics, shrubs, grasses, rushes, sedges, cacti, succulents, and tropicals). [HS.11.76](#)
 - 77 Prepare the site for planting. [HS.11.77](#)
 - 78 Purchase plants. [HS.11.78](#)
 - 79 Install plant materials. [HS.11.79](#)
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L Maintaining the Landscape [HS.12](#)

- 80 Identify cultural practices used in the landscaping industry. [HS.12.80](#)
- 81 Water landscapes. [HS.12.81](#)
- 82 Fertilize landscape plantings. [HS.12.82](#)
- 83 Describe mulching of landscape plantings. [HS.12.83](#)
- 84 Edge plant beds. [HS.12.84](#)
- 85 Prune landscape plants. [HS.12.85](#)
- 86 Maintain lawns. [HS.12.86](#)
- 87 Identify symptoms of nutritional deficiencies and toxicities of plants. [HS.12.87](#)
- 88 Manage pests, using Integrated Pest Management (IPM) strategies. [HS.12.88](#)
- 89 Apply best management practices in the landscape industry. [HS.12.89](#)
- 90 Explain how to store, handle, transport, and dispose of pesticides in a manner consistent with labeling, regulation and compliance, and adhering to all user safety guidelines. [HS.12.90](#)
- 91 Demonstrate procedures for calibrating a fertilizer spreader or injector using mathematical concepts. [HS.12.91](#)