Virginia CTE

Landscaping 1 (8036)

Landscaping 1 (8036) HS

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

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

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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:xamining 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

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

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

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

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

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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

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

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

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

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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 (OHSA) 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

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