Virginia CTE

Horticulture Sciences (8034)

Horticulture Sciences (8034) 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

Skip to main content

H Gaining an Overview of the Horticulture Industry HS.8

- 44 Follow safety procedures in the horticulture industry. HS.8.44
- 45 Outline the scope of the horticulture industry. HS.8.45
- 46 Research career opportunities in the horticulture industry. HS.8.46

I Selecting, Operating, and Maintaining Greenhouses HS.9

- 47 Describe factors to consider when planning a greenhouse. HS.9.47
- 48 Identify a variety of greenhouses, their components, and other protected structures. HS.9.48
- 49 Identify a variety of greenhouse environmental controls. HS.9.49
- 50 Describe procedures for greenhouse structural and equipment maintenance. HS.9.50

J Applying Science to Horticulture HS.10

- 51 Describe plant taxonomy. HS.10.51
- 52 Analyze plant anatomy and physiology. HS.10.52
- 53 Define the characteristics of soil and soilless substrates. HS.10.53
- 54 Describe nutrition management practices. HS.10.54
- 55 Compare irrigation system options. HS.10.55
- 56 Describe how environmental factors affect plant growth. HS.10.56
- 57 Describe plant propagation methods. HS.10.57
- 58 Demonstrate plant propagation. HS.10.58

K Investigating the Floral Industry HS.11

- 59 Identify floriculture crops. HS.11.59
- 60 Produce a floriculture crop. HS.11.60

61 Design interior plantings. HS.11.61

- 62 Design floral arrangements. HS.11.62

L Investigating the Landscaping Industry HS.12

- 63 Identify landscape plants. HS.12.63
- 64 Design landscapes. HS.12.64
- 65 Construct landscapes. HS.12.65
- 66 Identify landscape maintenance tasks. HS.12.66

M Investigating the Turf Grass Industry HS.13

- 67 Identify turfgrass species. HS.13.67
- 68 Outline aspects of the turfgrass industry. HS.13.68

Skip to main content

69 Describe the procedures for establishing turf. HS.13.69

70 Maintain turf. HS.13.70

N Investigating Pest Management HS.14

71 Identify plant pests. HS.14.71

72 Interpret pesticide labels. HS.14.72

73 Interpret safety data sheets (SDS). HS.14.73

74 Identify safety issues in pest management. HS.14.74

75 Identify pest management programs for horticulture crops. HS.14.75

76 Explain the principles of Integrated Pest Management (IPM). HS.14.76

77 Explain the differences between biotic and abiotic issues in pest management. HS.14.77

O Investigating Fruit and Vegetable Production HS.15

78 Identify vegetable crops. HS.15.78

79 Plan a vegetable garden site. HS.15.79

80 Produce vegetables. HS.15.80

81 Identify fruit and nut crops. HS.15.81

82 Plan a fruit garden, orchard, nut tree nursery, or vineyard. HS.15.82

83 Produce fruit crops. HS.15.83

84 Describe additional horticultural methods used for flower, vegetable, and fruit production. HS.15.84