Virginia CTE

Veterinary Science 1 (8088)

Veterinary Science 1 (8088) VS1

A Demonstrating Personal Qualities and Abilities VS1.1

1. Demonstrate creativity and innovation. VS1.1.1
2. Demonstrate critical thinking and problem solving. VS1.1.2
3. Demonstrate initiative and self-direction. VS1.1.3
4. Demonstrate integrity. VS1.1.4
5. Demonstrate work ethic. VS1.1.5

B Demonstrating Interpersonal Skills VS1.2

6. Demonstrate conflict-resolution skills. VS1.2.6
7. Demonstrate listening and speaking skills. VS1.2.7
8. Demonstrate respect for diversity. VS1.2.8
9. Demonstrate customer service skills. VS1.2.9
10. Collaborate with team members. VS1.2.10

C Demonstrating Professional Competencies VS1.3

11. Demonstrate big-picture thinking. VS1.3.11
12. Demonstrate career- and life-management skills. VS1.3.12
13. Demonstrate continuous learning and adaptability. VS1.3.13
14. Manage time and resources. VS1.3.14
15. Demonstrate information-literacy skills. VS1.3.15
16. Demonstrate an understanding of information security. VS1.3.16
17. Maintain working knowledge of current information-technology (IT) systems. VS1.3.17
18. Demonstrate proficiency with technologies, tools, and machines common to a specific occupation. VS1.3.18
19. Apply mathematical skills to job-specific tasks. VS1.3.19
20. Demonstrate professionalism. VS1.3.20
21. Demonstrate reading and writing skills. VS1.3.21
22. Demonstrate workplace safety. VS1.3.22

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:xamining All Aspects of an Industry VS1.4

23 Examine aspects of planning within an industry/organization. VS1.4.23

24 Examine aspects of management within an industry/organization. VS1.4.24

25 Examine aspects of financial responsibility within an industry/organization. VS1.4.25

26 Examine technical and production skills required of workers within an industry/organization. VS1.4.26

27 Examine principles of technology that underlie an industry/organization. VS1.4.27

28 Examine labor issues related to an industry/organization. VS1.4.28

29 Examine community issues related to an industry/organization. VS1.4.29

30 Examine health, safety, and environmental issues related to an industry/organization. VS1.4.30

E Addressing Elements of Student Life VS1.5

31 Identify the purposes and goals of the student organization. VS1.5.31

32 Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult. VS1.5.32

33 Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects. VS1.5.33

34 Identify Internet safety issues and procedures for complying with acceptable use standards. VS1.5.34

F Exploring Work-Based Learning VS1.6

35 Identify the types of work-based learning (WBL) opportunities. VS1.6.35

36 Reflect on lessons learned during the WBL experience. VS1.6.36

37 Explore career opportunities related to the WBL experience. VS1.6.37

38 Participate in a WBL experience, when appropriate. VS1.6.38

G Exploring Leadership Opportunities through FFA VS1.7

39 Identify the role of supervised agricultural experiences (SAEs) in agricultural education. VS1.7.39

40 Participate in an SAE. VS1.7.40

41 Identify the benefits and responsibilities of FFA membership. VS1.7.41

42 Describe leadership characteristics and opportunities as they relate to agriculture and FFA. VS1.7.42

43 Apply for an FFA degree and/or an agricultural proficiency award. VS1.7.43

H Exploring Veterinary Science Careers VS1.8

44 Explore animal related careers. VS1.8.44

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45 Describe the importance of and opportunities for continuing education in the animal care field. VS1.8.45

I Demonstrating Professional Conduct in the Animal Care Field VS1.9

46 Identify the roles and responsibilities of professionals in the veterinary industry. VS1.9.46

47 Describe the functions of local, state, and national professional organizations in the field of animal care. VS1.9.47

48 Define prominent animal special interest groups. VS1.9.48

49 Identify legal and ethical issues in the veterinary medicine field. VS1.9.49

50 Describe the physical and mental demands and personal coping mechanisms of various animal-care professionals. VS1.9.50

J Understanding Safety and Sanitation VS1.10

51 Explain safety measures and their importance in animal care, and the Occupational Safety and Health Administration (OSHA) standards. VS1.10.51

52 Follow safety procedures for personal protection in the veterinary medicine industry. VS1.10.52

53 Follow laboratory safety procedures. VS1.10.53

54 Identify the importance of safety data sheets (SDS). VS1.10.54

55 Explain the role and regulations of OSHA and the Virginia Department of Labor and Industry (VDOLI) pertaining to veterinary science. VS1.10.55

56 Identify the physical, chemical, biological, and zoonotic hazards associated with the veterinary industry. VS1.10.56

57 Describe chemicals, including cleansers, disinfectants, and antiseptics commonly used in veterinary practice. VS1.10.57

58 Explain the concept of asepsis in veterinary work. VS1.10.58

K Understanding Common Companion Animal Species and Breeds VS1.11

59 Explain the origin of each companion animal species. VS1.11.59

60 Identify companion animal species. VS1.11.60

61 Identify characteristics of breeds within each species. VS1.11.61

62 Identify breeding methods and rearing techniques. VS1.11.62

63 Describe housing and maintenance of companion animals. VS1.11.63

64 Explain the suitability of a species and/or breed as a companion animal. VS1.11.64

65 Describe behavior patterns of companion animals. VS1.11.65

66 Interpret companion animal behaviors. VS1.11.66

L Understanding Common Livestock Species and Breeds VS1.12

67 Explain the origin of common livestock species. VS1.12.67

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8 Identify common livestock species. VS1.12.68

69 Identify the characteristics of common breeds within instructor-selected species. VS1.12.69

70 Identify breeding methods and rearing techniques of common livestock species. VS1.12.70

71 Describe housing and maintenance of livestock. VS1.12.71

72 Explain species and/or breed suitability of livestock. VS1.12.72

73 Describe common behavior patterns of livestock. VS1.12.73

74 Interpret common livestock animal behaviors. VS1.12.74

M Handling Animals VS1.13

75 Identify unique handling considerations for species/breeds common in the veterinary field. VS1.13.75

76 Identify methods and equipment used for restraining animals. VS1.13.76

77 Demonstrate safe and humane restraint and handling methods used for veterinary procedures. VS1.13.77

78 Demonstrate respect for and safe treatment of animals. VS1.13.78

79 Describe safe and humane transport of an animal. VS1.13.79

80 Lift and carry a dog and cat. VS1.13.80

81 Move a nonaggressive dog and cat into and out of cage. VS1.13.81

82 Identify techniques for handling an aggressive dog and cat. VS1.13.82

83 Muzzle a dog and cat. VS1.13.83

84 Demonstrate common restraint techniques for dogs and cats. VS1.13.84

85 Describe the use of equipment for restraining a dog and cat. VS1.13.85

86 Describe how to move exotic species into and out of cages. VS1.13.86

N Demonstrate how to administer medication. VS1.14

87 Demonstrate checking an animal for fleas and ticks. VS1.14.87

88 Explain tick removal and prevention. VS1.14.88

89 Prepare shampoos and creme rinses. VS1.14.89

90 Bathe an animal. VS1.14.90

91 Dry an animal. VS1.14.91

92 Use grooming tools and equipment. VS1.14.92

93 Demonstrate the trimming of an animal's nails. VS1.14.93

94 Brush and/or demat an animal's coat. VS1.14.94

95 Demonstrate the cleaning of an animal's ears. VS1.14.95

96 Clip an animal's coat with electric clippers. VS1.14.96

97 Perform final comb-out. VS1.14.97

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O Performing Maintenance Functions VS1.15

98 Explain how to clean, sanitize, disinfect, and store laundry. VS1.15.98

99 Clean and disinfect sink/tub. VS1.15.99

100 Clean and disinfect small animal quarters. VS1.15.100

101 Sanitize animal treatment area. VS1.15.101

102 Clean floors. VS1.15.102

103 Change trash liner. VS1.15.103

104 Describe the various types of disposal methods within a facility. VS1.15.104

105 Dispose of hazardous materials. VS1.15.105

106 Provide appropriate bedding. VS1.15.106

107 Provide appropriate types of bedding. VS1.15.107

P Understanding Veterinary Medical Terminology VS1.16

108 Explain the formation of veterinary medical terminology. VS1.16.108

109 Identify basic veterinary medical terms and abbreviations. VS1.16.109

110 Use veterinary medical terminology. VS1.16.110

111 Describe anatomical and directional terminology. VS1.16.111

Q Understanding Anatomy and Physiology VS1.17

112 Describe the relationship among cells, tissues, organs, and organ systems. VS1.17.112

113 Explain the anatomy and physiology of the skeletal system. VS1.17.113

114 Explain the anatomy and physiology of the muscular system. VS1.17.114

115 Explain the anatomy and physiology of the respiratory system. VS1.17.115

116 Explain the anatomy and physiology of the digestive system. VS1.17.116

117 Explain the anatomy and physiology of the nervous system. VS1.17.117

118 Explain the anatomy and physiology of the circulatory system. VS1.17.118

119 Explain the anatomy and physiology of the urinary system. VS1.17.119

120 Explain the anatomy and physiology of the male and female reproductive systems. VS1.17.120

121 Explain the anatomy and physiology of the integumentary system. VS1.17.121

122 Explore additional body systems. VS1.17.122

R Understanding Animal Nutrition VS1.18

123 Identify the six basic nutrients and their functions in maintaining animal health. VS1.18.123

.24 Calculate a dog's total daily energy requirement to maintain a healthy weight. VS1.18.124

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125 Determine the body condition of an animal. VS1.18.125

126 Determine the nutritional value of animal feeds as they relate to dietary requirements of life stages. VS1.18.126

127 Identify marketing strategies of feed companies. VS1.18.127

S Performing Clinical Exams VS1.19

128 Explain the importance of routine physical exams. VS1.19.128

129 Identify the characteristics of healthy vs. unhealthy animals. VS1.19.129

130 Describe the methods of assessing animal health. VS1.19.130

131 Demonstrate the use of diagnostic tools. VS1.19.131

132 Weigh and/or measure an animal. VS1.19.132

133 Demonstrate measuring and evaluating vital signs. VS1.19.133

134 Describe how to evaluate mucous membranes and capillary refill time (CRT). VS1.19.134

135 Determine a FAMACHA score for small ruminants. VS1.19.135

T Handling Death and Dying VS1.20

136 Explain the purpose of euthanasia. VS1.20.136

137 Describe situations that may warrant euthanasia. VS1.20.137

138 Describe aspects and accepted procedures and methods of humane euthanasia. VS1.20.138

139 Explain how veterinary personnel can give support and assistance to a grieving client. VS1.20.139

140 Describe accepted methods of handling animal remains. VS1.20.140

U Performing Office Functions VS1.21

141 Maintain veterinary records. VS1.21.141

142 Explain the inventory process for supplies. VS1.21.142

143 Explain equipment maintenance. VS1.21.143

144 Demonstrate professional etiquette for managing telephone calls and electronic communications. VS1.21.144

145 Schedule an appointment. VS1.21.145

146 Explain procedures for handling monetary transactions in the veterinary business. VS1.21.146