

# Agriculture, Food and Natural Resources: Veterinary Assisting 5 (2021): Grades 9-12

Groom selected companion and livestock animals. The student will be able to: 15.0

- 1 Discuss using a variety of brushes, combs, flea combs, mat splitters, undercoat rakes, etc. to groom animal hair/fur as needed for both cosmetic and therapeutic reasons. 15.1
- 2 Explain using clippers to cut animal hair/fur as needed for both cosmetic and therapeutic reasons. 15.2
- 3 Explain the necessity of following written and oral instructions and all label directions regarding shampoos for bathing and therapeutic or flea rinses (dips). 15.3
- 4 List precautions in bathing and dipping including avoiding soap or chemicals in the eyes, lathering the entire body, timing the shampoo application according to directions, and towel or blow drying. 15.4
- 5 Identify the area of blood and nerve supply of the nail in the dog and cat and common pets such as rabbits and ferrets. 15.5
- 6 Identify appropriate instrument or nail trimmer for small and large dogs and cats. 15.6
- 7 Demonstrate comfortable handling of paw or limb during nail trim for dog and cat. 15.7
- 8 Explain methods for hemostasis if nail is accidentally trimmed too short. 15.8
- 9 Notify supervisor of abnormalities including in-grown nails and abnormal growth or shape. 15.9
- 10 Describe the steps in expressing anal sacs using the external method. 15.10
- 11 Discuss proper hoof care and hoof trimming needs. 15.11

Describe exotic animals and the effects of captivity on them. The

- 1 Define exotic animal, zoo animal, invasive and native animals. 16.1
- 2 Identify exotic animals native and invasive to Florida. 16.2

**student will be able to:** 16.0

---

**3 Explain the effects of urban sprawl on the wildlife population.** 16.3

---

**4 Describe the roles of the Florida Fish and Wildlife Conservation Commission in wildlife management.** 16.4

---

**5 Explain state, national, and international laws affecting the purchase and transport of exotic animals.** 16.5

---

**Assess techniques used in surgical assisting and surgical preparation. The student will be able to:** 17.0

---

**1 Prepare and sterilize surgical equipment and supplies.** 17.1

- a Explain standard procedure for cleaning and lubricating all stainless steel instruments. 17.1.A
  - b Explain appropriate use of ultrasonic instrument cleaning and proper solutions. 17.1.B
  - c Explain cold sterilization trays and appropriate solutions. 17.1.C
  - d Demonstrate assembly and wrapping of surgical packs for sterilization. 17.1.D
  - e Demonstrate folding and wrapping a surgical gown for sterilization. 17.1.E
  - f Explain proper procedure for sterilizations methods including the autoclave and gas sterilization (ethylene oxide) including safety precautions with each. 17.1.F
- 

**2 Describe components of surgical assisting.** 17.2

- a Explain aseptic protocol for maintaining sterility of the surgical field 17.2.A
  - b Demonstrate what can and cannot be touched when assisting in a surgical environment. 17.2.B
  - c Demonstrate how suture material might be removed from its outer packaging and passed to the surgeon while maintaining sterility 17.2.C
- 

**3 Summarize procedures necessary of patient preparation.** 17.3

- a Explain reason for pre-surgical fasting and appropriate time interval. 17.3.A
- b List methods to identify animal for surgery and confirm identity. 17.3.B
- c Demonstrate dorsal and sternal recumbancy positioning and securing animal in each on the surgery table under anesthesia as instructed by the veterinary technician or veterinarian. 17.3.C
- d Demonstrate clipping or shaving surgical field as instructed by the veterinary technician or veterinarian. 17.3.D
- e Demonstrate cleaning and disinfecting the surgical field using currently accepted standards for aseptic technique and surgical scrub. 17.3.E

---

**4 Identify proper post-surgical care techniques. 17.4**

- a List parameters to monitor during recovery and signs of distress in the recovery period. 17.4.A
  - b Explain the swallow reflex and the appropriate time and method for endotracheal tube removal. 17.4.B
  - c Explain appropriate transfer of animal from surgery to recovery kennel, positioning in kennel, and precautions in kennel. 17.4.C
  - d Confirm “No food or water” or similar instructions on recovery kennel. 17.4.D
- 

**Explain principles of pharmacology. The student will be able to: 18.0**

- 1 Identify forms of medication including tablet, capsule, liquid, powder, granules, topical creams, liquids, and gels. 18.1**

---

  - 2 Explain the application of topical flea medication. 18.2**

---

  - 3 Demonstrate the reconstitution of vaccine using appropriate diluents and amounts of diluents. 18.3**

---

  - 4 Demonstrate administration oral medications on companion and livestock animals. 18.4**

---

  - 5 List the components that must be present on a prescription label. 18.5**

---

  - 6 Observe and understand controlled substances logs and security 18.6**

---

  - 7 Inventory pharmacy supplies and notify supervisor of low supplies 18.7**

---

  - 8 Identify expiration date on labels and notify supervisor of expired drugs 18.8**

---

  - 9 Maintain clean shelves and storage areas for pharmaceuticals 18.9**

---

  - 10 Describe the process for administering medications by injection, oral, nasal and topical. 18.10**

---

  - 11 Describe the procedure for safe disposal of medications. 18.11**

---

  - 12 Determine methods to observe animals for medicine side effects or allergies. 18.12**
- 

**Explain proper methods of syringe and hypodermic needle use. The student will be able to: 19.0**

- 1 Identify and give the correct alignment from smallest to largest of hypodermic needles including but not limited to;12 g, 18g, 20 g, 22 g and 25 g. 19.1**

---

- 2 Identify and align from smallest to largest commonly used syringes including but not limited to 3cc, 6cc, 12cc, 20cc, 35cc, 60cc and 1cc tuberculin or insulin syringe. 19.2**

---

- 3 Demonstrate the ability to read the precise volume of medication in a syringe and to fill a syringe with medication to a specified volume when requested. 19.3**

---

**4 Describe appropriate SQ, IM, and IV injection sites.** 19.4