Specific Competencies and Skills Tested in this Assessment:

**Safety and Personal Hygiene**
- Demonstrate use of fire extinguisher
- Follow safety procedures in classroom and laboratory
- Maintain a safe and sanitary environment
- Identify modes of transmission/prevention of zoonotic disease
- Properly handle chemicals
- Identify and dispose of contaminated and hazardous material properly
- Follow electrical safety rules

**Animal Care Management and Restraint**
- Restrain animals
- Identify sex of animals
- Trim nails and/or teeth on animals
- Water & properly feed all animals daily
- Maintain clean and sanitary cages
- Maintain records on the following animals:
- Breed and raise young to weaning age

**Grooming**
- Identify grooming equipment
- Identify selected shampoos
- Mix flea rinse
- Apply muzzle to dog
- Properly use grooming noose
- Properly blend with thinning shears
Small Animal Science – (continued)

**Genetics and Reproduction**
- Explain the different stages of mitosis
- Explain the different stages of meiosis
- Define specific genetic terminology
- Use the punnett square and solve the following:
  - monohybrid cross
  - dihybrid cross
  - quantitative factors
- Identify sex-linked, incompletely sex linked, holandric, sex-limited, and sex-influenced traits
- Read and evaluate a pedigree
- Identify and explain functions of reproductive organs
- Define gestation
- Explain the role of hormones in the reproductive/estrus cycle
- List the four phases of the estrous cycle
- List different types of estrous cycles in domesticated animals
- Explain the alternative methods of insemination
- List signs of estrus
- List signs of parturition

**Business Management**
- Prepare sales receipt
- Properly answer phone/record information
- Properly keep appointment book
- Record/file client info on client index cards
- Maintain shop inventory
- Maintain financial records
- Demonstrate sales mathematics

**Animal First Aid**
- Identify 15 items to keep in a first aid box
- Explain difference between arterial and venous bleeding
- List four pressure points
- Apply pressure bandage to an animal
- List four symptoms of shock and treatment to be given
- Show by example how to approach an injured dog
- List six categories of physical assessment from most to least serious
- Perform CPR on dummy dog
- Define the ABC’s
- Define specific first aid terminology
- Given case studies, describe possible first aid treatment

**Clinical/Nursing Skills**
- Operate monocular microscope
- Wrap surgical pack
- Operate scale and weigh animal properly
- Perform TPR on animal
- Identify injection sites and types of injections
- Identify selected surgical instruments
- Identify different size needles and syringes
- Properly administer oral medications
- List methods in which anesthesia is administered
- Mathematically calculate dosage rates
Small Animal Science – (continued)

**Dog and Cat Care and Management**
- Understand the body language of the dog and cat
- Identify external anatomy
- Identify dog breed recognized by the American Kennel Club
- Describe process and justification of neutering
- Define specific dog/cat terminology
- Identify and demonstrate use of training equipment
- List the possible vaccinations available for dog/cat
- Identify ten long haired and ten shorthaired breeds of cats

**Health and Disease Control**
- Perform fecal floatation
- Perform fecal smear
- Identify roundworm, hookworm, tapeworm, whipworm & heartworm from prepared slides
- Explain the differences between infectious and non-infectious diseases
- Properly perform skin scraping
- Identify external parasites
- Explain quarantine and place animal in Quarantine
- Describe the antibody/antigen response
- Describe the process of immunity
- Explain how diseases are transmitted
- Explain how diseases can be prevented
- List characteristics of a healthy animal

**Nutrition**
- List the 6 nutrient groups and their function and sources
- Determine type of food to feed animal
- Figure cost of feed (price per pound)
- Explain the difference between a ruminant, non-ruminant, and a bird
- Properly read a feed label
- List diseases associated with nutritional deficiency and/or toxicity

**Leadership and Job Skills**
- Prepare a resume and portfolio
- Explain and identify common sources for employment
- Compose a cover letter and thank you letter, a cover letter, business and thank you letter
- Perform a mock interview
- Complete a job application
- Send a fax and email
- Demonstrate proper business etiquette
- Conduct a meeting following Parliamentary Procedure
Written Assessment:

Administration Time: 3 hours
Number of Questions: 152

Areas Covered:

- Safety and Personal Hygiene
- Animal Care, Management and Restraint
- Grooming
- Genetics/Reproduction
- Business Management
- Animal First Aid
- Clinical/Nursing Skills
- Dog and Cat Care and Management
- Health and Disease Control
- Nutrition
- Leadership and Job Skills
**Sample Questions:**

Which of the following diseases is associated with an extreme deficiency of calcium?
A. pellagra  
B. scurvy  
C. rickets  
D. grass tetany

Why do parasite eggs come to the top during a fecal floatation?
A. They are attracted to light.  
B. They swim to the top.  
C. They are heavier than the solution.  
D. They are lighter than the solution.

When reading a pedigree, the “dam” is the
A. father  
B. grandfather  
C. mother  
D. litter mate

Which of the following animals can be properly restrained between the thumb and forefinger?
A. hamster  
B. snake  
C. rabbit  
D. cat

When picking up a heavy dog, you should lift with the muscles of your
A. legs  
B. arms  
C. back  
D. waist
Performance Assessment:

Administration Time: 1 hour, 20 minutes
Number of Jobs: 6

7% Identify Grooming Equipment
Proper identification/spelling of grooming equipment

43% Restrain and Sex Determination of Small Animals
Pick-up, restrain, and determine the sex of small animals

19% Identify Internal Parasites
Identify parasite and egg on microscopic slides

5% Read Glass Thermometer
Properly read two separate preset glass thermometers

Properly lift dog, apply grooming noose and muzzle, clip nail, and identify specified areas of external anatomy of a medium-sized dog

7% Communication Skills
Greet customer and complete a grooming receipt

Sample Job: Identify Grooming Equipment

Estimated Job Time: 15 minutes

Participant Activity: Identify and correctly spell each of ten displayed pieces of grooming equipment.