

## Small Animal Science (NY)

Code: 7413 / Version: 01 Copyright © 2003. All Rights Reserved.

#### **General Assessment Information**

Blueprint Contents	
General Assessment Information	Sample Written Items
Written Assessment Information	Performance Assessment Information
Specific Competencies Covered in the Test	Sample Performance Job

**Test Type:** The Small Animal Science assessment was developed based on standards used in the state of New York and contains a multiple-choice and performance component. This assessment is meant to measure technical skills at the occupational level and includes items which gauge factual and theoretical knowledge.

**Revision Team:** The assessment content is based on input from New York educators who teach in career and technical education programs.



51.0808- Veterinary/Animal Health Technology/Technician and Veterinary Assistant



Career Cluster 1-Agriculture, Food, and Natural Resources

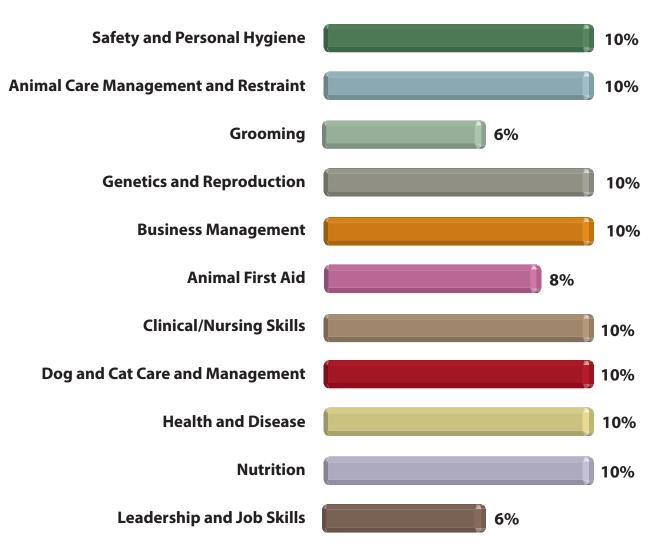


29-2056.00- Veterinary Technologists and Technicians

## Written Assessment

This written assessment consists of questions to measure an individual's factual theoretical knowledge.

#### Administration Time: 3 hours Number of Questions: 152 Number of Sessions: This assessment may be administered in one, two, or three sessions.



#### Areas Covered

## Specific Standards and Competencies Included 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 and properly feed all animals daily
- Maintain records on 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

#### **Genetics and Reproduction**

- Explain the different stages of mitosis
- Explain the different stages of meiosis
- Define specific genetic terminology
- Use the punnett square to solve problems

(Continued on the following page)

## Specific Standards and Competencies (continued)

#### **Genetics and Reproduction (continued)**

- 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

(Continued on the following page)

## Specific Standards and Competencies (continued)

#### **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

#### **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**

- Perform fecal floatation
- Perform fecal smear
- Identify roundworm, hookworm, tapeworm, whipworm & heartworm from prepared slides
- Explain the differences between infectious and non-infectious diseases

## Specific Standards and Competencies (continued)

#### 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 six 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
- Write a cover letter, business, and a 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
- Identify four offices and their duties

## 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. rat
- 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

(Continued on the following page)

## Sample Questions

# Which of the following pieces of equipment is used to attach the dog to the grooming arm?

- A. leash
- B. collar
- C. grooming noose
- D. snare

#### Daily sales totals should be done to

- A. do inventory recall
- B. record billing information
- C. maintain proper financial records
- D. identify clients

#### When applying for a job, it is important to know your

- A. social security number
- B. weight
- C. religion
- D. height

#### A female dog is called a

- A. boar
- B. queen
- C. bitch
- D. sow

#### Which of the following needles is the largest?

- A. 30 gauge
- B. 25 gauge
- C. 22 gauge
- D.18 gauge

## Performance Assessment

NOCTI performance assessments allow individuals to demonstrate their acquired skills by completing actual jobs using the tools, materials, machines, and equipment related to the technical area.

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

#### Areas Covered:

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

**43% Restraint 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

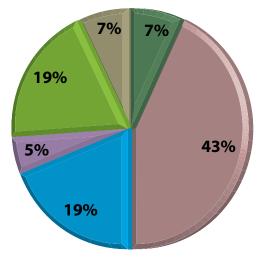
Properly read two separate preset glass thermometers

#### 19% Canine: Safety, Handling, Restraint, and Identification of External Anatomy

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.

