



Entry Level Assessment Blueprint

Animal Systems



Test Code: 1227 / Version: 01

Specific Competencies and Skills Tested in this Assessment:

General Agriculture Technical Skills

- Apply knowledge of the basics of animal systems
- Apply knowledge of the basics of plant and insect systems
- Apply knowledge of the basics of soil, water, and air systems
- Use, maintain, and store tools and equipment appropriately
- Analyze current issues in the fields of Animal Science, Natural Resources, and Agricultural Biotechnology

Animal Systems Technical Skills

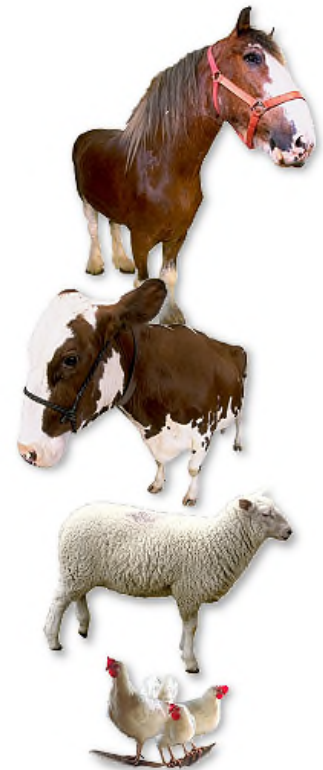
- Apply knowledge of anatomy and physiology to identify, produce, and manage animals in a domesticated or natural environment
- Provide proper nutrition, handling, and sanitation to maintain animal health
- Recognize animal behaviors, and employ precautions to facilitate working with animals safely

Academic Foundations

- Apply reading skills in an Animal Science, Natural Resources, and/or Agricultural Biotechnology environment
- Apply writing skills in an Animal Science, Natural Resources, and/or Agricultural Biotechnology environment
- Apply mathematical skills in an Animal Science, Natural Resources, and/or Agricultural Biotechnology environment
- Apply science skills in an Animal Science, Natural Resources, and/or Agricultural Biotechnology environment

Systems

- Understand the major governing bodies and groups that impact how Animal Science, Natural Resources, and/or Agricultural Biotechnology organizations function (e.g., EPA)
- Demonstrate knowledge of economic principles as applied to Animal Science, Natural Resources, and/or Agricultural Biotechnology systems (e.g., supply and demand, profit)



Specific Competencies and Skills continued:

Ethic and Legal Responsibilities

- Understand the major laws and regulations that impact the Animal Science, Natural Resources, and/or Agricultural Biotechnology industry
- Identify and practice ethical behavior in the workplace

Communications

- Locate, organize, and reference written information from reliable sources to communicate with coworkers and clients
- Develop and deliver formal and informal presentations using appropriate media to engage and inform audiences
- Apply listening skills and interpret verbal and nonverbal behaviors to enhance communication with coworkers and clients
- Interpret and use tables, charts, and graphics to support written and oral communication

Information Technology Applications

- Use computers and software to increase general work efficiency
- Use information technology tools specific to Animal Science, Natural Resources, and/or Agricultural Biotechnology to access and manage information (e.g., GPS)

Problem Solving, Critical Thinking, and Decision Making

- Use problem solving and critical thinking skills to locate sources of information about problems and determine appropriate methods for investigating causes
- Use problem solving and critical thinking skills to determine root causes of problems and suggest solutions

Leadership and Teamwork

- Exhibit leadership practices to improve production and quality of work and the work environment
- Work effectively in a team environment to improve the quality of work and the work environment

Specific Competencies and Skills continued:

Safety, Health, and Environmental

- Identify and practice appropriate environmental, health, and safety procedures for Animal Science, Natural Resources, and/or Agricultural Biotechnology occupations
- Demonstrate appropriate first aid knowledge and procedures for Animal Science, Natural Resources, and/or Agricultural Biotechnology occupations

Employability and Career Development

- Demonstrate employability skills related to a career in Animal Science, Natural Resources, and/or Agricultural Biotechnology
- Pursue career development skills to advance in Animal Science, Natural Resources, and/or Agricultural Biotechnology



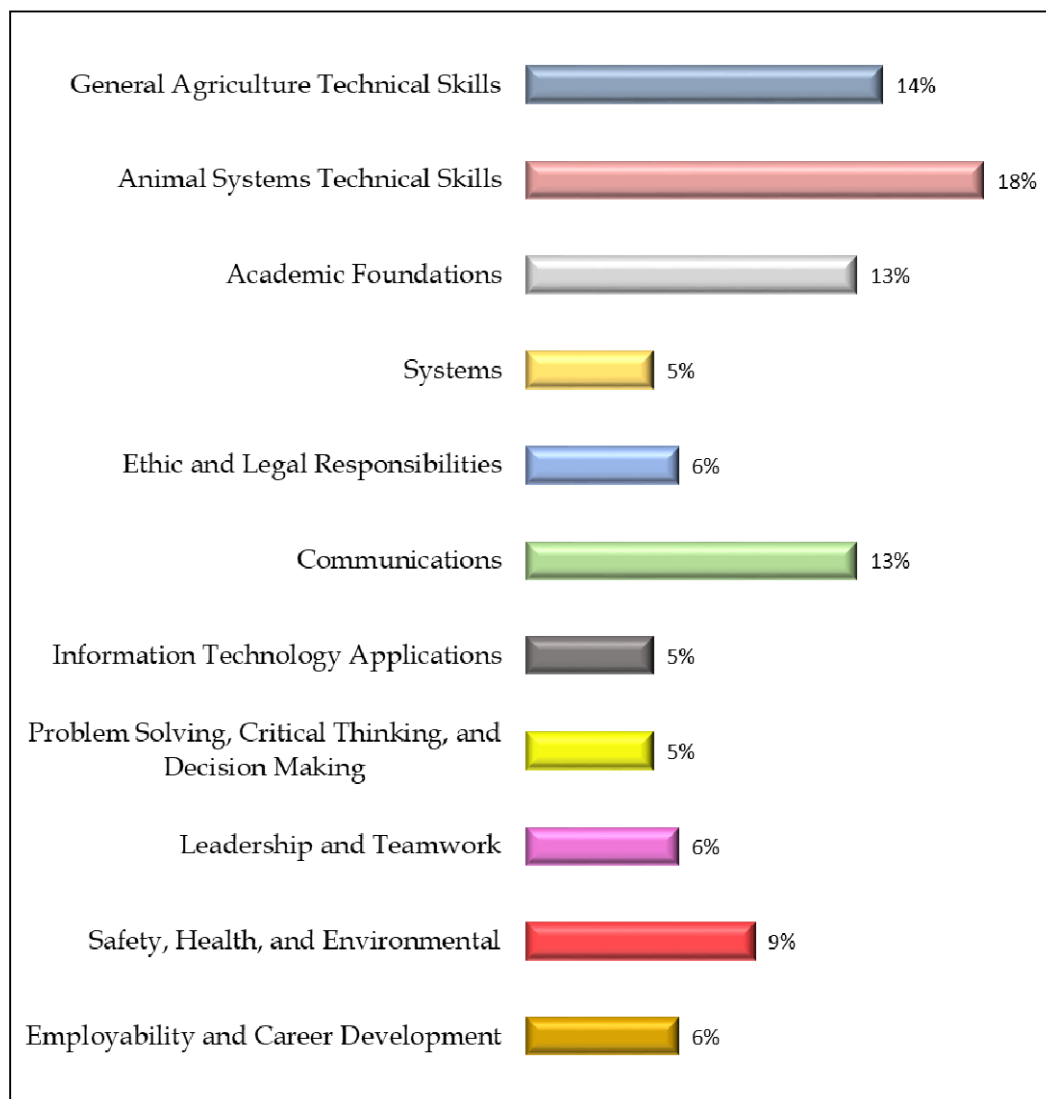
Written Assessment:

Administration Time: 2 hours

Number of Questions: 112

Areas Covered:

14%	General Agriculture Technical Skills
18%	Animal Systems Technical Skills
13%	Academic Foundations
5%	Systems
6%	Ethic and Legal Responsibilities
13%	Communications
5%	Information Technology Applications
5%	Problem Solving, Critical Thinking, and Decision Making
6%	Leadership and Teamwork
9%	Safety, Health, and Environmental
6%	Employability and Career Development



Sample Questions:

Individual state Departments of Conservation and Natural Resources in conjunction with the U.S. Department of Agriculture manage

- A. pesticides
- B. food safety
- C. timber
- D. pet stores

The technique used to practice water conservation in creative landscapes is called

- A. hardscaping
- B. xeriscaping
- C. landscaping
- D. greenscaping

An agronomist is primarily concerned with what use of soil?

- A. construction
- B. acting as a filter for the hydraulic cycle
- C. supporting crop growth
- D. natural beauty

The thread-like structures that exist in pairs and carry genes are called

- A. gametes
- B. mitosis
- C. meiosis
- D. chromosomes

Selenium is added to animal feed to help prevent

- A. mad cow disease
- B. white muscle disease
- C. dehydration
- D. avian flu

The purpose of a summary in a report is to emphasize

- A. an introduction
- B. references and sources
- C. key points
- D. an autobiographical sketch