



West Virginia DEPARTMENT OF
EDUCATION

NOCTI

State Customized
Credential Blueprint



Animal Systems (WV)

Code: 8996 / Version: 01
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General Assessment Information

Blueprint Contents

General Assessment Information
Written Assessment Information

Specific Competencies Covered in the Test
Sample Written Items

Test Type: The Animal Systems assessment was developed based standards used in the State of West Virginia and contains a knowledge-based 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 West Virginia educators who teach in career and technical education programs.



01.0901
Animal Sciences, General



Career Cluster 1 - Agriculture, Food
& Natural Resources



45-2093.00 Farmworkers,
Farm, Ranch, and
Aquacultural Animals

Written Assessment

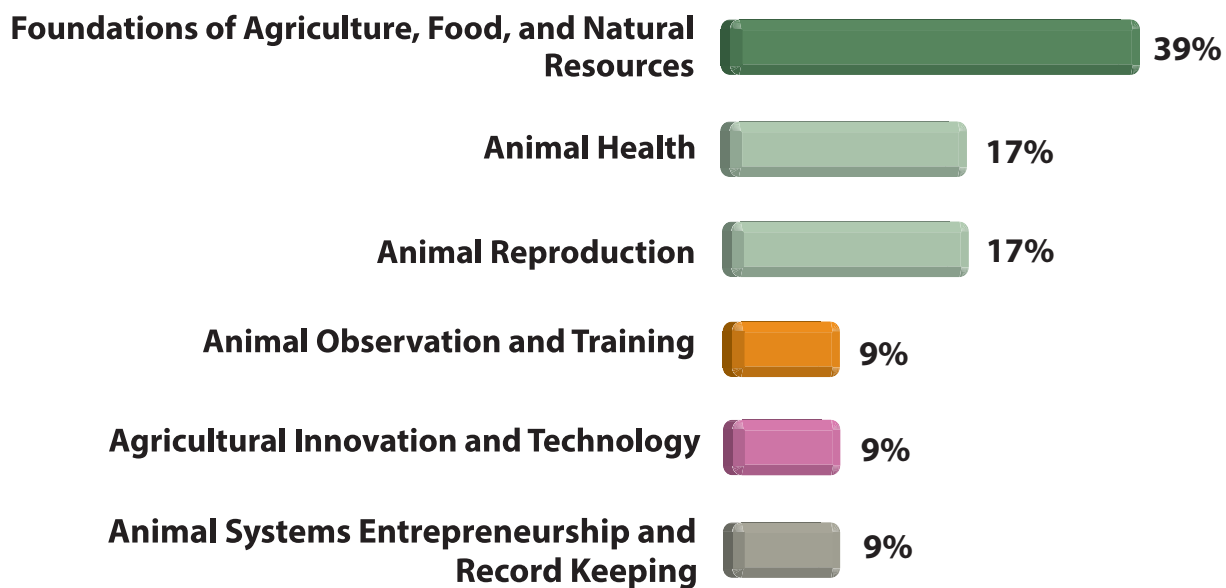
This written assessment consists of questions to measure an individual's factual theoretical knowledge.

Administration Time: 2 hours

Number of Questions: 102

Number of Sessions: This assessment may be administered in one, two, or three sessions.

Areas Covered



Specific Standards and Competencies Included in this Assessment

Foundations of Agriculture, Food, and Natural Resources

- Demonstrate understanding of agribusiness (e.g., SAE, expenses)
- Demonstrate understanding of animal systems (e.g., breeds of livestock, anatomy)
- Demonstrate understanding of agriculture innovation and technology
- Demonstrate understanding of food products and processing (e.g., protein sources, food preservation)
- Demonstrate understanding of natural resources (e.g., renewable resources)
- Demonstrate understanding of plant systems (e.g., plant parts, processes, soil)
- Demonstrate understanding of power, structural, and technical systems (e.g., measurement)
- Demonstrate knowledge of leadership development through FFA (e.g., motto, parliamentary procedure, official dress)

Animal Health

- Identify diseases and injuries and appropriate treatment for domestic farm animals, pets, and nonfarm animals (e.g., bacterial, viral, fungal, or parasitic cause, not specific medications)
- Interpret records on heats, birth intervals, pedigree, and health practices of domestic farm animals, pets, and nonfarm animals (e.g., subcutaneous injection)
- Demonstrate understanding of biosecurity in the animal industry (e.g., quarantine)

Animal Reproduction

- Describe selection methods of domestic farm animals, pets, and nonfarm animals (e.g., birth weight, EPD, genotype vs. phenotype)
- Identify aspects of breeding, including breeding methods, used in domestic farm animals, pets, and nonfarm animals (e.g., artificial insemination)

Animal Observation and Training

- Understand how to observe and train animals for various situations (e.g., showing, training of livestock)
- Describe methods utilized in animal handling and restraint (e.g., farrowing crate, squeeze chute)

(Continued on the following page)

Standards and Competencies (continued)

Agricultural Innovation and Technology

- Identify emerging technology in the livestock and companion animal industry (e.g., embryo transfer, RFID)
- Demonstrate understanding of the impact of international agriculture on the U.S. livestock and companion animal industry (e.g., imports, tariffs, supply and demand)
- Recognize career opportunities in technology, innovation, and entrepreneurship in the livestock and companion animal industry.

Animal Systems Entrepreneurship and Record Keeping

- Describe value-added agriculture, and define direct marketing (e.g., niche marketing, marketing plan)
- Exhibit understanding of animal welfare and quality assurance
- Demonstrate understanding of financial record keeping (e.g., expenses, assets and liabilities, income)



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Sample Questions

Agricultural innovations have allowed farmers to

- A. eliminate the use of chemical fertilizers
- B. increase the use of chemical fertilizers
- C. produce more crops on less land
- D. produce fewer crops on more land

FFA business meetings are run using an established set of rules known as

- A. Business Rules
- B. Meeting Rules
- C. Parliamentary Procedures
- D. Business Procedures

Expected Progeny Difference is a livestock

- A. performance record system for pets
- B. tool used to evaluate semen of offspring
- C. method of embryo transfer for livestock
- D. measurement of potential offspring performance

What are the two factors that determine or influence an animal's disposition?

- A. genetic make-up and environmental situation
- B. environmental situation and nutrition
- C. nutrition and housing
- D. housing and genetic make-up

Which is an example of an animal welfare principle?

- A. providing adequate housing
- B. preventing slaughter
- C. using animals for entertainment
- D. refraining from eating meat