



CUSTOMIZED ASSESSMENT BLUEPRINT

ANIMAL SYSTEMS

Test Code: 8996

Version: 01

Preliminary Blueprint - final version is subject to slight changes.

Specific competencies and skills tested 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)

Animal Systems (continued)

Animal 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)

Animal Systems (continued)

Knowledge-Based Assessment:

Administration Time: 2 hours

Number of Questions: 102

Areas covered:

39%	Foundations of Agriculture, Food, and Natural Resources
17%	Animal Health
17%	Animal Reproduction
9%	Animal Observation and Training
9%	Agricultural Innovation and Technology
9%	Animal Systems Entrepreneurship and Record Keeping

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