



## CUSTOMIZED ASSESSMENT BLUEPRINT

### **Oregon Agriculture** *Secondary and Post-Secondary* **Test Code: 8100/8101**

#### **Specific Competencies and Skills Tested in this Assessment:**

##### **General Agriculture**

Use oral and written communication skills in creating, expressing and interpreting agricultural information and ideas including technical terminology

Solve agriculture problems using critical thinking skills (e.g., analyze, synthesize and evaluate, independently and in teams)

Use information technology tools to access, manage, integrate, create, and communicate agricultural information

Use leadership skills in collaborating with others to accomplish agriculture related organizational goals and objectives

Demonstrate workplace ethics specific to agricultural occupations

Know and understand the importance of employability skills for agricultural careers

Use tools, equipment, machinery and technology to work in areas related to agriculture

Use economic principles to manage agriculture resources and produce products

*Oregon Agriculture (continued)*

**Agribusiness**

Apply generally accepted accounting principles and skills to manage budget, credit, and optimal application of AFNR business assets

Employ leadership skills to accomplish goals and objectives in an AFNR business environment

Practice good record keeping to accomplish AFNR business objectives

Use sales and marketing principles to accomplish an AFNR business objective

**Power Structure and Technology**

Apply principles of operation and maintenance to mechanical equipment, structures, biological systems, land treatment, power utilization, and technology

Apply principles of service and repair to mechanical equipment, structures, biological systems, land treatment, power utilization, and technology

Examine structural requirements to estimate project costs

Develop skills required to use construction/fabrication equipment and tools

**Animal Science**

Apply knowledge of anatomy and physiology to produce and/or manage animals in a domesticated or natural environment

Know the factors that influence an animal's reproductive cycle to explain species response

Provide proper nutrition to maintain animal performance

**Plant Science**

Address taxonomic or other classifications to explain basic plant anatomy and physiology.

Apply fundamentals of production and harvesting to produce plants

Apply principles of anatomy and physiology to produce and manage plants in both a domesticated and a natural environment

Exercise elements of design to enhance an environment (e.g., floral, forest, landscape, farm)

*Oregon Agriculture (continued)*

**Written Assessment:**

Administration Time: 1 hour and 30 minutes (available in 1 or 2 sessions)

Number of Questions: 104

Cut Score: 64.4/79.8

|     |                                |
|-----|--------------------------------|
| 49% | General Agriculture            |
| 14% | Agribusiness                   |
| 9%  | Power Structure and Technology |
| 14% | Animal Science                 |
| 14% | Plant Science                  |

***Sample Questions:***

The process of using future contracts for forward pricing of farm crops (grain) is known as

- A. guessing
- B. wavering
- C. loaning
- D. hedging

When two or more people share the business, it is classified as a

- A. sole proprietorship
- B. partnership
- C. ownership
- D. corporation

Use a \_\_\_\_\_ to clean and restore a grinding wheel's roundness.

- A. grit cutter
- B. screwdriver
- C. wheel dresser
- D. square stock

An enlarged paunch noticeable on the left side of cattle is caused by

- A. founder
- B. indigestion
- C. bloat
- D. vaginitis

An alkaline soil has a pH of

- A. 2
- B. 4
- C. 5
- D. 8