

MS Ag Education: Level 3 (2025)

Ag Systems

Animal Science

- 1 Recognize the signs and symptoms of poor animal health (diseases, parasites, disorders) **OC1**
- 2 Identify processes to prevent the spread of diseases, parasites, and disorders (sanitation, biosecurity, VCPR) **OC2**
- 3 Evaluate livestock or companion animals based on industry standards. **OC3**
- 4 Demonstrate safe handling techniques and proper restraint methods for animals. **OC4**

Plant Systems

- 5 Explain the harmful and beneficial effects of various organisms in relation to plant production (insects, microbes, fungi) **OC5**
- 6 Identify agricultural practices related to preventing plant pests and diseases. **OC6**
- 7 Analyze the life cycle of plants in relation to optimal growing conditions and seasons. **OC7**
- 8 Utilize the applications of art and design in agriculture/horticulture. **OC8**

Agricultural Power, Structural and Technical Systems

- 9 Identify and safely operate basic power tools (drill, skill saw, etc.) and/or equipment in the agriculture mechanics laboratory. **OC9**
- 10 Plan, estimate cost, and construct basic agricultural construction/mechanics projects. **OC10**
- 11 Discuss and demonstrate safety procedures and appropriate behavior while working in the agriculture classroom, laboratory, and/or worksite. **OC11**

Agriscience

- 12 Connect and apply scientific concepts in practical agricultural applications. **OC12**
- 13 Operate basic laboratory equipment and measurement devices (microscope, graduated cylinder, scale, etc.) **OC13**
- 14 Analyze technological trends and research in agriculture and natural resources. **OC14**

15 Employ the steps of the scientific method in conducting an investigation related to agriculture. **OC15**

Consumerism

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Identify primal and retail cuts of meat. **OC16**

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Demonstrate practices to prevent food-borne illnesses (food safety, cooking temperatures/thawing, cross-contamination, sanitation, allergens.) **OC17**

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Evaluate consumer demand and its impact on agricultural production practices. **OC18**

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Identify the four P's/marketing mix used in a marketing plan for agricultural products (product, place, price, promotion.) **OC19**

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Identify how communication technology (social media, print news, television) impacts public perception of the agricultural industry and how these can be used to positively advocate for the industry. **OC20**

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Careers

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Explore basic employability skills (resumes, applications,

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Formulate individual and business goals and objectives. **OC22**

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Maintain basic records related to Supervised Agricultural Experience (SAE) programs, community involvement, and personal finance. **OC23**

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Leadership

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Develop a plan for an activity (FFA event, fundraiser, community service project, etc.) **OC24**

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Demonstrate professional public speaking ability through a speech, demonstration, or presentation. **OC25**

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Identify the components of a successful meeting (agenda, minutes, procedures.) **OC26**

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