

Career and Technical Education Standards

Ag Pathway Courses

Outcome:

1.3 Business Ethics and Law

Analyze how professional, ethical and legal behavior contributes to continuous improvement in organizational performance and regulatory compliance.

Competencies

- 1.3.1. Analyze how regulatory compliance (e.g., United States Department of Agriculture [USDA], Food and Drug Administration [FDA], United States Department of Interior [USDI], Ohio Livestock Care Standards, water quality standards, local water regulations, building codes) affects business operations and organizational performance.
- 1.3.2. Follow protocols and practices necessary to maintain a clean, safe and healthy work environment.
- 1.3.4. Identify how federal and state consumer protection laws affect products and services.
- 1.3.5. Access and implement safety compliance measures (e.g., quality assurance information, safety data sheets [SDSs], product safety data sheets [PSDSs], United States Environmental Protection Agency [EPA], United States Occupational Safety and Health Administration [OSHA]) that contribute to the continuous improvement of the organization.

Outcome:

3.8. Research and Experiments

Conduct a problem-based study, applying scientific methodology and using descriptive statistics to communicate and support predictions and conclusions.

Competencies

- 3.8.1. Identify research problems and structure a statistical experiment, simulation or study related to the problem.
- 3.8.2. Design a research plan, including the significance of the problem, purpose, variables, hypotheses, objectives, methods of study and a list of materials.
- 3.8.3. Distinguish between dependent, independent and control variables in an experiment.
- 3.8.4. Establish and implement procedures for systematic collection, organization and use of data.
- 3.8.5. Select and apply sampling methods that appropriately represent the population to be studied.
- 3.8.7. Document results of the experiment in a laboratory notebook, including a statement of purpose, experimental designs, observations, results, conclusions and next steps.
- 3.8.12. Prepare and present findings using scientific reports.