

Course Code: AGB 111

Course Title: Agriculture Equipment Safety

Department: Agricultural Technologies

Effective Date: Summer 2026

PCS Code: 1.2 - Occupational/Technical Instruction

CIP Code: 01.0201

Repeatability: 0

Credit Hours

Catalog Notation: 1-1-1

Credit Hour Distribution:

Lecture: 1

Lab: 1

Clinical: 0

Total: 1

General Course Information

Catalog Description

Introduction and application of required safety training specifically for agriculture retail facilities. Students will learn about the Department of Transportation (DOT) and Environmental Protection Agency (EPA) with emphasis on compliance issues in the workplace.

General Course Objectives

- Students will understand DOT and EPA rules and regulations which pertain to agriculture retail businesses.
- Students will demonstrate proper forklift safety and cargo securement.

Minimum Placement Levels

| English | Reading | Math |
|------------------------|------------------------|------------------------|
| Placement into ENG 098 | Placement into CCS 098 | Placement into MAT 060 |

Prerequisites

None

Methods of Evaluation

The minimum number of evaluation methods include: 2 practical exams - 1) forklift operation, and 2) cargo securement; 9 quizzes, and 1 final exam.

Instructional Materials and Additional Supplies

None.

Course Content

General Learning Outcomes (GLOs)

- Critical Thinking and Information Literacy: Students will demonstrate the ability to evaluate perspectives, evidence, and implications, and to locate, assess, and use information effectively.
- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.

Course Segments and Student Learning Outcomes

| Course Segment | Learning Outcomes | Lecture Hours | Lab Hours | Clinical Hours |
|--|---|---------------|-----------|----------------|
| Department of Transportation (DOT) Procedures | <ol style="list-style-type: none"> 1. Describe the role of the DOT in the agriculture retail organization. 2. Identify DOT warning labels, markings, and placarding according to 49 CFR Part 172. | 1 | 0 | 0 |
| Commercial Motor Vehicle (CMV) Regulations | <ol style="list-style-type: none"> 1. List the documents required in a driver qualifications file during employment when operating a CMV. 2. Demonstrate the ability to perform vehicle maintenance procedures to maintain proper documentation for vehicle maintenance files as required by the Federal Motor Carrier Safety Administration. 3. List the content contained in a motor vehicle record. 4. Explain the rules and requirements to obtain and maintain a commercial driver's license (CDL), including drug and alcohol testing. 5. Identify the requirements for various CDL classifications. | 2 | 2 | 0 |
| Hazardous Materials | <ol style="list-style-type: none"> 1. Explain the regulations and proper handling of hazardous materials applicable to the transportation of hazardous materials as required by the Hazardous Materials Transportation Act (HMTA). 2. Explain when a Hazardous Materials Safety Permit (HMSP) is required. | 2 | 0 | 0 |
| Cargo Securement and Inspections | <ol style="list-style-type: none"> 1. Choose the proper loading and unloading cargo procedures for securing equipment and productions for transportation. | 1 | 0 | 0 |
| Environmental Protection Agency (EPA) Procedures and Reporting | <ol style="list-style-type: none"> 1. Describe the role of the EPA in the agriculture retail organization. 2. Explain the registration process for obtaining an EPA Establish (Company) number. 3. Explain the purpose of Tier II reporting as required by the EPA. | 2 | 2 | 0 |
| EPA Facility Safety Procedures | <ol style="list-style-type: none"> 1. Explain the importance of a Risk Management Plan (RMP). 2. Develop an RMP according to Section 112(r) of the Clean Air Act Amendment. 3. Interpret a Spill Prevention, Control, and Countermeasures (SPCC) Plan. 4. Explain the procedures necessary to comply with the bulk pesticide repackaging policy as guided by the EPA. | 2 | 2 | 0 |
| EPA Worker Safety Procedures | <ol style="list-style-type: none"> 1. Identify and apply the requirements in the EPA's Agriculture Worker Protection Standard (WPS). | 1 | 1 | 0 |
| EPA Application Safety Procedures | <ol style="list-style-type: none"> 1. Classify pesticides as restricted use pesticides (RUPs) or general use (unclassified) pesticides. 2. Interpret and explain an RUP report to minimize unreasonable adverse effects to the environment. | 2 | 2 | 0 |

| Course Segment | Learning Outcomes | Lecture Hours | Lab Hours | Clinical Hours |
|--|---|---------------|-----------|----------------|
| Forklift and Cargo Securement Training | <ol style="list-style-type: none"> 1. Identify safety precautions associated with forklifts and cargo securement. 2. Demonstrate the ability to safely operate a forklift. 3. Demonstrate the ability to properly load CMVs to prevent shifting loads, spilled or dropped cargo, or overloading. | 2 | 6 | 0 |

Total Contact Hours

| Lecture Hours | Lab Hours | Clinical Hours |
|---------------|-----------|----------------|
| 15 | 15 | 0 |