

Minnesota State College Southeast

AGRI 1100: Farm Safety

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 1

Lab Hours/Week: 1

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

In this course, students will focus on safety as it relates to proper operation of a variety of common agricultural situations, tools, and implements. Students will be provided an overview of the major risks and hazards in the agricultural setting and will explore best practices injuries and accidents. The course will include a strong hands-on component where students will demonstrate proper equipment operation and maintenance, and the course will culminate with students designing a customized farm safety plan. (Prerequisite: None) (2 Credits: 1 lecture/1 lab)

B. COURSE EFFECTIVE DATES: 09/20/2018 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Legal responsibilities and best-practices for agricultural safety
2. Risks associated with agricultural operations
3. Mitigation of farm hazards
4. Proper equipment operation

D. LEARNING OUTCOMES (General)

1. Demonstrate the ability to locate safety information and worker's rights information from the Occupational Health and Safety Administration and other resources
2. Explain legal and ethical considerations related to adults and children present on a farm
3. Describe the basic properties and functions of a combustion engine
4. Identify and describe a variety of common agricultural equipment, tools, and implements.
5. Demonstrate use of an operator's manual to identify safety hazards, maintenance needs, and basic operation of equipment
6. Describe appropriate risk management for agricultural equipment hazards including wrap points, shear points, pinch points, crush points, burn-points, free-wheeling parts, stored energy, and thrown objects
7. Describe safety concerns and mitigation related to a variety of tractor configurations including risks related to roll over, power take-offs, start-up, and shut down
8. Explain legal obligations and best practices related to agricultural equipment operation and transport on public roads
9. Describe risks and incident prevention associated with confined space entry
10. Demonstrate a pre-operation equipment check and verification of safety features for a variety of agricultural implements
11. Describe important safety considerations for the application of pesticides and fertilizers
12. Briefly describe safety considerations in working with livestock and various animal confinement systems
13. Demonstrate appropriate use of personal protective equipment in a given farm scenario
14. Demonstrate safe use of hand and power tools
15. Create a customized farm safety plan

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted