



South Central College

AGME 1813 Machinery Assembly, Operation, Adjust. & Reconditioning II

Common Course Outline

Course Information

Description This course covers basic harvesting, tillage and planting equipment. The student will learn component parts and proper adjustment of units. Machine adjustment maybe accomplished on demonstration units, operator manual examples, actual equipment or on field trips. In the machinery set and recondition portion the student identifies set-up and reconditioning portion the student identifies set up and reconditioning procedures, follows the set-up and operators manual, uses check sheets, uses a torque chart, learns the procedures for installation of hydraulics, optional equipment and adjusts the equipment for field use.

This course will involve both classroom and lab. References such as video tapes, texts, manual, handout, manufacturer's literature, training aids and instructor help are available n an open lab. The student will be working with customer, dealer donated and school owned units. The student will be expected to treat the dealer donated units with respect. The student will be driving the equipment on college property and will do so according to the instructors recommendations.

Total Credits 2

Total Hours 48

Types of Instruction

Instruction Type

Credits/Hours

Classroom Presentation

On-Campus Lab

Pre/Corequisites

Enrolled in Agriculture Service Tech Program

Course Outcomes

1. Recognize how to calibrate and recondition planter units.

Learning Objectives

Identify worn parts.

Identify pressure, vacuum, and mechanical seed metering.

Identify seed monitoring systems.

Adjust machine to specifications.

2. Identify replacement part needs.

Learning Objectives

Make lists of needed parts.

Use supplied and online manuals for parts lookup.

3. Failure analysis of defective components.

Learning Objectives

Look for wear points.

Seek out alternative replacement seals and bearings.

Identify replacement part manufacturer from other sources.

4. Recognize how to adjust and recondition harvesting units.

Learning Objectives

Identify worn parts.

Identify grain loss, and system that monitor losses.

Explain combine types and functions.

Explain cutting, feeding, threshing, separating and handling systems.

Identify combine drive systems.

Determine attachment spacing.

Adjust machine to specifications.

5. Recognize how to adjust and recondition baler units.

Learning Objectives

Identify worn parts.

Identify round, small square, and large square balers.

Adjust baler knotting components.

Adjust machine to specifications.

6. Adhere to Safety rules for operation of equipment.

Learning Objectives

Demonstrate proper machine supports.

Describe machine safety.

Explain safety procedures.

SCC Accessibility Statement

Disability Services provides accommodations and other supports to students with permanent and temporary disabilities that affect their SCC experience. Disabilities may include mental health (anxiety, depression, PTSD), ADHD, learning disabilities, chronic health conditions (migraine, fibromyalgia), sensory disabilities, and temporary disabilities (broken arm, surgery). Common accommodations are extended test time, private room for testing, audiobooks, and sign language interpreter.

Contact us: Faribault A116 (507) 332-5847. North Mankato E112 (507) 389-7222. ds@southcentral.edu
www.southcentral.edu/disability