



South Central College

# AGME 1812 Machinery Assembly and Reconditioning I

## Common Course Outline

### Course Information

<b>Description</b>	This course covers machinery set up and reconditioning. The student identifies set-up and reconditioning procedure, follows the set-up and operators manual, uses a checksheet, uses a torque chart, learns the procedure for threading and taping, install shell-coils and keenserts, sharpens drill bits, installs the hydraulic system, follows the hydraulic diagram, assembles machinery, touches up paint and adjusts the equipment for field use. (Prerequisites: None).
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<b>Total Credits</b>	2
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<b>Total Hours</b>	64
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### Types of Instruction

#### Instruction Type

**Credits/Hours**

On-Campus Lab

### Pre/Corequisites

Enrolled in Ag Service Technician Program

### Course Outcomes

#### 1. Use of instructions and manuals for adjustments and settings.

##### Learning Objectives

- Lay out components for equipment and arrange for assembly
- Identify parts shortages
- Check over unit on completion for initial operation
- Become familiar with field operation settings
- Use check sheets for final checkover to customer

#### 2. Proper hand tool usage.

##### Learning Objectives

- Use correct tool for project
- Adjust and use proper torque procedures
- Return tools to storage area
- Replace and check over tools for defective parts
- Use tools with proper safety procedures

#### 3. Demonstrate proper forklift operation.

**Learning Objectives**

Operate lifting equipment  
Move large machine parts  
Explain lifting equipment operation

**4. Assemble farm equipment.****Learning Objectives**

Explain proper tire mounting and wheel bearing adjustment  
Identify hydraulic fittings  
Install hydraulic cylinders and plumbing  
Bleed and charge hydraulic systems  
Install machine accessories and extensions  
Install warning lights and wiring

**5. Add attachments to farm equipment****Learning Objectives**

Install wiring for road operation  
Install machine options according to manufacturer instructions

**6. Proper use of safety equipment and machines****Learning Objectives**

Safety glasses used at all times  
Proper lifting techniques with forklift and appliances  
Stabilization stands used on all suspended components  
Safety procedures followed from manufactures

**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.

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