

South Central College

AGME 1891 Hydraulic Theory 1

Common Course Outline

Course Information

Description This course basic hydraulic system used agricultural equipment. This course will focus on the basic principles and the study of hydraulic components that make up the hydraulic systems. The student must read and sign the safety eyeglass form required by the state. *If you have a disability and need accommodations to participate in the course activities, please contact your instructor as soon as

Learning Objectives

Identify double and single acting cylinders
Compare balanced and unbalanced cylinders
Explain master slave cylinders operations
Describe vane type cylinders

4. Explain hydraulic pump and motors

Learning Objectives

Explain hydraulic motor operations
Explain hydraulic pump and motor control operation

5. Identify hydraulic fittings and hoses

Learning Objectives

Explain hydraulic plumbing selection
Explain hydraulic hose routing and selections

6. Describe hydraulic test equipment

Learning Objectives

Demonstrate pressure gauge use
Demonstrate flow meter usage
Identify test port placement and usage

7. Be aware of hydraulic safety procedures

Learning Objectives

Explain safety procedures for testing hydraulic systems.
Identify safety problems with hydraulic equipment.
Acquaint self with procedures if hydraulic accident occurs.