

Farm Power I

PURPOSE: This course includes a basic introduction into small gas engines, hydraulics, tractor maintenance, and farm machinery operation. The student will overhaul a small gas engine and require a hydraulic cylinder, both provided by the student. This class will supplement student preparation for a career in production ag, ag engineering and ag sales& service.

HIGH ACHIEVEMENT UNIT OUTCOMES:

Outcome I: Demonstrate knowledge and use of hydraulic systems

Components: Explain the basic properties of hydraulics

List some common uses for hydraulic systems

Outcome II: Demonstrate knowledge and use of small gas engine operating principles

Components: Procedures for a 2 and 4 stroke cycle

Definition of a loop and a cross-scavenge operation

Outcome III: Demonstrate use of measuring and testing instruments

Components: Demonstrate the uses of the micrometer caliper

Torque and torque wrenches

Outcome IV: Maintain a Supervised Agriculture Experience

Components: Maintain the SAE

Utilize the Kansas FFA SAE Record Book to monitor the SAE

Outcome V: Participate in FFA

Components: Paid annual dues

Attend district CDE or conference

