

Course Objectives/Course Outline
Spokane Community College

Course Title: Practical Shop

Prefix and Course Number: HEQ 252

Course Learning Outcomes:

By the end of this course, a student should be able to:

- Perform basic repairs on a wider range of heavy equipment types
- Perform more detailed repairs on a wider range of heavy equipment components such as steering final drives, tracks, hydraulic and electrical systems
- Perform basic engine tune-ups on diesel engines from a variety of different diesel engine manufacturers.
- Diagnose and repair electronic diesel engines using Digital Volt Ohm Meters, Scan tools and PC based computers
- Diagnose and repair Air Conditioning Systems

Course Outline

- I. Types of Equipment
 - A. Crawler Tractors
 - B. Wheel Tractors
 - C. Motor Graders
 - D. Class Eight Trucks
- II. Types of Components Repaired
 - A. Steering Final Drives
 - B. Tracks
 - C. Hydraulic Systems
 - D. Electrical Systems
 - E. Electronic Controls Systems
 - F. Air Conditioning Systems
 - G. Diesel Engine Tune-ups