Print Date: 8/17/14

Course Objectives/Course Outline Spokane Community College

Course Title: Heavy Duty Equipment Hydraulic Application

Prefix and Course Number: HEQ 242

Course Learning Outcomes:

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

perform basic repairs on a range of hydraulic equipment

- disassemble and diagnose malfunctions for a variety of hydraulic system components
- repair and test hydraulic system components
- disassemble and diagnose malfunctions for a variety of hydraulic system controls
- repair and test hydraulic system controls
- disassemble and diagnose malfunctions for a variety of tubing, hoses, and accessories
- repair and test tubing, hoses, and accessories

Course Outline

- I. Basic Hydraulic Systems Applications
 - A. Disassembly
 - B. Parts Inspection
 - C. Diagnosis
 - D. Repair Techniques
 - E. Reassembly
- II. Hydraulic System Components
 - A. Disassembly
 - B. Parts Inspection
 - C. Diagnosis
 - D. Repair Techniques
 - E. Reassembly
- III. Hydraulic System Controls
 - A. Disassembly
 - B. Parts Inspection
 - C. Diagnosis
 - 1. pressure testing equipment
 - 2. flow testing equipment
 - D. Repair Techniques
 - E. Reassembly
- IV. Tubing, Hoses, and Accessories
 - A. Disassembly
 - B. Parts Inspection
 - C. Diagnosis
 - D. Repair Techniques
 - E. Reassembly