

Course Objectives/Course Outline
Spokane Community College

Course Title: Basic Mechanical Maintenance and Repair
Prefix and Course Number: Water 206

Course Learning Outcomes:

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

- Develop basic working knowledge of the principles of mechanical equipment including design, installation, operation, maintenance, repair, overhaul, and replacement typically used in water and wastewater operations.
- Develop working knowledge of preventative maintenance inspections and repairs.
- Understand recordkeeping and part
- Develop skills of technical description through verbal and written communication
- Safety

Course Outline:

- I. System operation and maintenance
 - A. System and mechanical inspection
 - B. Troubleshooting
- II. Preventative maintenance
 - A. Common sources of equipment failure
 - B. Log book and record keeping
- III. Equipment lockout procedures
 - A. Types of valves
 - B. Valve operation and installation
- IV. Lubrication
 - A. Types and uses
- V. Bearings
 - A. Types and uses
- VI. Belt drives
 - A. Types and uses
- VII. Maintenance schedules
 - A. Log book and record keeping