

Course Objectives/Course Outline
Spokane Community College

Course Title: Drivetrain Maintenance

Prefix and Course Number: AUTO 151

Course Learning Outcomes:

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

- have a working knowledge of how an engine works.
- be familiar with repair and diagnosis procedures and equipment used to perform basic engine maintenance
- diagnose and repair fluid leaks
- inspect, adjust and replace engine drive belts
- service engine cooling systems
- perform fluid and filter changes in automatic transmissions and transaxles
- perform fluid changes in manual transmissions, transaxle, transfer cases and final drive differentials
- adjust clutch linkages
- bleed hydraulic clutch systems
- diagnose universal joint and constant velocity joint noises

Course Outline:

- I. Engine Repair
 - A. Theory of operation
 - B. Maintenance
 1. Lubrication Systems
 2. Drive Belts
 3. Cooling Systems
- II. Automatic Transmission/Transaxle
 - A. Fluids and Filters
 - B. Leak Diagnoses
- II. Manual Drive Train and Axles
 - A. Fluid Maintenance
 - B. Leak Diagnoses
 - C. Clutch Linkage Systems
 - D. Universal and Constant Velocity Joints