

Course Objectives/Course Outline
Spokane Community College

Course Title: Toyota Engine Repair

Prefix and Course Number: Auto 125

Course Learning Outcomes:

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

- Understand engine operation
- Cleaning of the engine
- Engine shop equipment and safety
- Measuring: US & Metric

Course Outline:

- I. Troubleshoot and Diagnosing
 - A. theory of engine removal, disassembly, inspection, and in-car repairs
 - B. Cylinder head theory
 - C. Cam and manifold theory
 - D. Cylinder block – inspection and service theory
 - E. Crankshaft and bearings, piston and rod theory
 - F. Lubrication and cooling systems theory
 - G. Engine hardware: fasteners, thread repair and gaskets
 - H. Valve train and valve timing.
 - I. Strategy-based diagnostics.
 - J. Evaluation driver input
 - K. Visual inspections
 - L. Test Drives