

Course Objectives/Course Outline
Spokane Community College

Course Title: Aircraft Engines Shop II

Prefix and Course Number: ARCFT 248

Course Learning Outcomes:

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

- Operate and engine
- Demonstrate engine inspections and overhauls
- Demonstrate disassemblies and inspections
- Demonstrate routine maintenance and servicing of aircraft engines

Course Outline:

- I. Remove, Install and Troubleshoot Engine
- II. Test Run Engine/Record Instrument Reading
- III. Clean Engine Parts
- IV. Replace Valve Guide, Reface Valves, Grind Seats and Check Fit
- V. Hone Cylinder
- VI. Magnaflux Engine Parts
- VII. Dycheck Engine Parts
- VIII. Fit Piston Rings
- IX. Fit Crankshaft Bearings
- X. Check Rod Alignment
- XI. Dimensional Check on Engine using manufacturer's "Table of Limits"
- XII. Assemble Engine
- XIII. Check Valve Clearances
- XIV. Inspect Engine for Compliance with Airworthiness Directives and Conformity to Type Certification
- XV. 100-Hour Inspection of Fixed Wing Airplane