

Course Objectives/Course Outline
Spokane Community College

Course Title: Intermediate Mechanical Components Applications

Prefix and Course Number: ABF 255

Course Learning Outcomes:

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

- Perform metal working procedures
- Replace automobile glass
- Repair fiberglass
- Perform basic repair and replacement procedures
- Measure and align components

Course Outline:

- I. Universal Measuring Systems
 - A. Mechanical Systems
 - B. Laser Systems
- II. Fillers
 - A. Lead
 - 1. Preparation for application
 - 2. Applying Lead Solder
 - 3. Filling Solder
 - B. Plastics
 - 1. Types and Uses
 - 2. Repair
 - 3. Chemical-adhesive Bonding Techniques.
- III. Metal Working
 - A. Techniques
 - 1. Dollying
 - 2. Shrinking
 - 3. Filing Dolly
 - B. High Strength Steel Applications
- IV. Repair and Replacement
 - A. Repair Equipment
 - 1. Bench Machine
 - 2. Heavy Pulling Equipment
 - B. Quarter Panel Replacement
 - C. Glass Replacement
 - 1. Windshield
 - 2. Back Glass
 - 3. Quarter Glass
 - 4. Door Glass

- D. Fiberglass Repair
 - 1. Safety
 - 2. Panels
- E. Dents
 - 1. Pounding Out
 - 2. Raising with Heat
- F. Salvage
 - 1. Types
 - 2. Uses
 - 3. Sources
- V. Accessory Equipment
 - A. Onboard Computers
 - B. Seat Belts and Straps
 - C. Head Liners