

Course Objectives/Course Outline
Spokane Community College

Course Title: Advanced Metal Straightening and Panel Replacement Methods

Prefix and Course Number: ABF 247

Course Learning Outcomes:

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

- Demonstrate panel removal process
- Demonstrate panel attachment methods
- Demonstrate panel adjustment processes

Course Outline:

- I. Removing and Installing Structural Panels
 - A. Removal
 1. Spot Weld Positions
 2. Separating Spot Welds
 3. Separating Continuous Welds
 4. Separating Brazed Areas
 - B. Installation
 1. Replacement Panel Preparation
 2. Positioning New Panels
 - a. Dimensional
 - b. Visual Inspection
 3. Fitting Panels
 4. Cutting Overlapping panels
 5. Welding New Panels
- II. Sectioning
 - A. Craze Zones
 - B. Types of Joints
 - C. Preparation
 - D. Body Rails
 - E. Rocker Panels
 - F. Pillars
 - G. Floor Pans
 - H. Trunk Floors
 - I. Full Body
- III. Door Panel Replacement
 - A. Welded Door Skins
 - B. Custom Body Panels
 - C. Panel Adjustments

- IV. Miscellaneous Adjustments
 - A. Hood Adjustments
 - 1. Hood-to-Hinge
 - 2. Hood Height
 - 3. Hood Latch
 - B. Trunk Lid
 - C. Fenders
 - D. Doors
 - 1. Coupe/Sedan
 - 2. Station Wagon