Course Objectives/Course Outline
Spokane Community College

Course Title:  Sheet Metal Layout and Fabrication Lab  
Prefix and Course Number:  AIRC 126

Course Learning Outcomes:

By the end of this course, a student should be able to:
- Demonstrate the ability to use sheet metal hand tools
- Demonstrate the ability to use sheet metal fabrication equipment
- Demonstrate the ability to layout commonly used duct fittings
- Fabricate a square duct fitting
- Fabricate a rectangular duct fitting
- Fabricate a duct transition fitting with three straight sides
- Fabricate a center flare duct transition fitting
- Fabricate a duct square elbow
- Fabricate a duct change elbow
- Fabricate a duct radius elbow
- Fabricate a duct clinch tee
- Fabricate a duct ogee offset
- Install fabricated duct fittings into a completed duct system

Course Outline:

1. Basic Sheet Metal Practices
   a. Hand tools
   b. Shop equipment
   c. Layout
2. Duct Fabrication and Installation
   a. Duct fittings
   b. Duct fabrication
   c. Duct installation
   d. Duct sealing
3. Safety
   a. Safety practices when working with sheet metal