



South Central College

# ABCT 1810 Sheet Metal I

## Course Outcome Summary

### Course Information

<b>Description</b>	The students in this course will learn the characteristics of sheet metal repair processes in minor damage. Students practice sheet metal repair on panels or damage on vehicles. Students learn material product safety and use of body fillers. (Prerequisites: None)
<b>Total Credits</b>	3
<b>Total Hours</b>	80

### Types of Instruction

Instruction Type	Credits/Hours
Lecture	1/16
Lab	2/64

### Pre/Corequisites

None

### Institutional Core Competencies

Civic Engagement and Social Responsibility - Students will be able to demonstrate the ability to engage in the social responsibilities expected of a community member.

Communication - Students will be able to demonstrate appropriate and effective interactions with others to achieve their personal, academic, and professional objectives.

Critical and Creative Thinking - Students will be able to demonstrate purposeful thinking with the goal of using a creative process for developing and building upon ideas and/or the goal of using a critical process for the analyzing and evaluating of ideas.

### Course Competencies

- The following list of course goals will be addressed in the course. These goals are directly related to the performance objectives. [HP-I] designates an individual goal. [HP-G] designates a group goal.**
- Exhibit professionalism.**
- Comply with personal and environmental safety practices associated with clothing and the use of gloves; respiratory protection; eye protection; hand tools; power equipment; proper**

ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.

4. [HP-I] Remove paint from the damaged area of a body panel.
5. [HP-I] Locate and reduce surface irregularities on a damaged body panel.
6. [HP-I] Demonstrate hammer and dolly techniques.
7. [HP-I] Heat shrink stretched panel areas to proper contour.
8. [HP-I] Cold shrink stretched panel areas to proper contour.
9. [HP-I] Mix body filler.
10. [HP-I] Apply body filler; shape during curing.
11. [HP-I] Rough sand cured body filler to contour; finish sand.
12. [HP-G] Determine the proper metal finishing techniques for aluminum.
13. [HP-G] Determine proper application of body filler to aluminum.
14. [HP-I] Protect panels, glass, and parts adjacent to the repair area.
15. [HP-I] Restore corrosion-resistant coatings, caulking, and seam sealers to repaired areas.
16. [HP-I] Select and use the NIOSH approved personal sanding respirator.

#### **SCC Accessibility Statement**

South Central College strives to make all learning experiences as accessible as possible. If you have a disability and need accommodations for access to this class, contact the Academic Support Center to request and discuss accommodations. North Mankato: Room B-132, (507) 389-7222; Faribault: Room A-116, (507) 332-7222.

Additional information and forms can be found at: [www.southcentral.edu/disability](http://www.southcentral.edu/disability)

This material can be made available in alternative formats by contacting the Academic Support Center at 507-389-7222.