COURSE OUTLINE
Revision:  S. Ford  February 2012

DEPARTMENT: Automotive Technology
CURRICULUM: Auto Body Collision Repair
COURSE TITLE: Full and Partial Panel Replacement
COURSE NUMBER: ABR 172
TYPE OF COURSE: Vocational Preparatory
COURSE LENGTH: 5 weeks
CREDIT HOURS: 7
LECTURE HOURS: 20
LAB HOURS: 100
CLASS SIZE: 20

PREREQUISITES: ABR 111 (Introduction to Automotive Collision Technology), ABR 112 (Safety and Environmental Practices) and ABR 113 (Welding and Cutting), or instructors permission

COURSE DESCRIPTION:

This module instructs students to understand full or partial panel replacement, uses of various types of joints used in sectioning, repair or replacement of a complete rail section, rocker panel, A and B pillar, floor pan, truck floor and full body section.

STUDENT LEARNING OUTCOMES ADDRESSED:

1. Computation - Use mathematics to determine proper repair and replacement of parts.
ABR 172 Full and Partial Panel Replacement

STUDENT LEARNING OUTCOMES ADDRESSED: (cont.)

3. Technology - Select and use appropriate tools to properly repair the vehicle.

GENERAL COURSE OBJECTIVES:

At the end of the course the student will:

1. Understand and have knowledge of full or partial panel replacement.
2. Properly select various types of joints used in sectioning vehicles.
3. Be able to repair or replace a complete frame rail assembly.
4. Be able to repair or replace a partial rail assembly.
5. Have the knowledge to be able to repair or replace rocker panel.
6. Be able to successfully section or completely replace an A pillar.
7. Successfully section or completely replace a B Pillar.
8. Have the knowledge to repair and replace a floor pan or truck floor.
9. Have the knowledge to complete a full body section repair.

TOPICAL OUTLINE: 

<table>
<thead>
<tr>
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<th>APPROX. HOURS</th>
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<tbody>
<tr>
<td>I. Course requirements</td>
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<td>II. Safety in the work areas</td>
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<tr>
<td>III. Principles of full or partial panel replacement</td>
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<tr>
<td>IV. Selection and use of various types of joints used in sectioning</td>
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<tr>
<td>V. Repair or replace frame rail</td>
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<td>VI. Repair or replace rocker panel</td>
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<td>VII. Repair or replace A pillar</td>
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<tr>
<td>VIII. Repair or replace B pillar</td>
<td>15</td>
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<tr>
<td>IX. Repair and replace floor pan and truck floor</td>
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<tr>
<td>X. Complete full body section repair</td>
<td>15</td>
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<td>Total</td>
<td>120</td>
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REVISED BY: Steve Ford
DATE: February 2012