Course Number: Instructor: Jeff Owen
OCAS Code: Phone Number: 580.327.0344
Course Length: 45 hours Email: jowen@nwtech.edu
Career Cluster: Transportation, Distribution, & Logistics Campus: Alva
Career Pathway: Automotive Collision Repair Program: Collision Technology
Career Major: Combination Collision Repair Technician, Non-Structural Repair Technician, Refinishing Technician
Pre-requisite: None
Course Description: In this course the student will cover tools and equipment, safety, hazardous material handling and storage. The student will be taught to identify safety and hazardous warning information for products used in the collision repair industry and the Right-To-Know Act. Students will also study the collision repair industry and the preparation of the vehicle for entering the repair facility.

Instructional Philosophy: The instructor will provide not only technical training in the Auto Collision Technology area but also soft-skills training in an effort to provide training and services needed for students to succeed in the workplace.

Course Goals: Upon successful completion of this course, the student will be able to:

• Review damage report and analyze damage to determine appropriate methods for overall repair; develop repair plan.
• Inspect, remove, store, and replace exterior trim and moldings.
• Inspect, remove, store, and replace interior trim and components.
• Inspect, remove, store, and replace non-structural body panels and components that may interfere with or be damaged during repair.
• Inspect, remove, store, and replace all vehicle mechanical and electrical components that may interfere with or be damaged during repair.
• Protect panels, glass, and parts adjacent to repair area.
• Soap and water wash entire vehicle; use appropriate cleaner to remove contaminants from those areas to be repaired.
• Remove corrosion protection, undercoatings, sealers, and other protective coatings necessary to perform repairs.
• Inspect, remove, and replace repairable plastics and other components that are recommended for off-vehicle repair.
• Apply safety procedures associated with vehicle components and systems such as ABS, air bags, refrigerants, batteries, tires, oil, anti-freeze, engine coolants, etc.
• Apply environmental practices associated with vehicle components and systems such as substrates, fluids, refrigerants, batteries, etc.
• Identify and take necessary precautions with hazardous operations and materials according to federal, state, and local regulations.
• Identify safety and personal health hazards according to OSHA guidelines and the “Right to Know Law”.
• Inspect spray environment to ensure compliance with federal, state and local
regulations, and for safety and cleanliness hazards.

- Select and use the NIOSH approved personal sanding respirator. Inspect condition and ensure fit and operation. Perform proper maintenance in accordance with OSHA Regulation 1910.134 and applicable state and local regulation.

- Select and use the NIOSH approved (Fresh Air Make-up System) personal painting/refinishing respirator system. Perform proper maintenance in accordance with OSHA Regulation 1910.134 and applicable state and local regulation.

- Select and use the proper personal safety equipment for surface preparation, spray gun and related equipment operation, paint mixing, matching and application, paint defects, and detailing (gloves, suits, hoods, eye and ear protection, etc.).

**Major Course Projects:**

Students are allowed to work on their own projects as well as live-work projects as approved by instructor.

Students will compile a portfolio which includes classroom theory and activities as well as a summary of hands-on work in the shop. Students will include photographs of projects and live work projects with descriptions for each photo.

**Project Outline:**

Students may begin working on projects as their skill level allows. All projects must be completed by the first of May. These projects will reinforce classroom theory instruction and will require the student to consult industry service information during the course of task performance.

**Instructional Delivery Plan:**

The instruction for this course will utilize various methods in an effort to promote and accommodate different learning styles including classroom lecture, classroom demonstrations, shop demonstrations, hands-on learning activities, classroom discussion, interactive media, textbook, computer based learning activities, research projects, guest speakers, and student presentations. Students will be required to work independently as well as in teams. Assignments will require students to use academic skills in math, science, and language arts.

**Assessment Plan:**

Pass Safety Test with 100% accuracy.

Assessment Plan:

- 50% Performance of technical skills
- 45% Tests and written assignments
- 5% Academic Career Center (ACC)

Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100</td>
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<tr>
<td>B</td>
<td>80-89</td>
</tr>
<tr>
<td>C</td>
<td>70-79</td>
</tr>
<tr>
<td>D</td>
<td>60-69</td>
</tr>
<tr>
<td>F</td>
<td>Below 60</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
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<tbody>
<tr>
<td>A</td>
<td>Exceeds expectations</td>
</tr>
<tr>
<td>B</td>
<td>Meets industry standards and expectations</td>
</tr>
<tr>
<td>C</td>
<td>Passing grade, but does not meet some standards</td>
</tr>
<tr>
<td>D</td>
<td>Passing, but only meets the minimum standards</td>
</tr>
<tr>
<td>F</td>
<td>Failing, does not meet minimum standards</td>
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**Alliance Credit Offered:**

OSU-IT

**Industry Alignments:**

ICAR

**End of Instruction Industry Assessment:**

Students will have to pass Safety Test at 100% accuracy and demonstrate safety practices.

**Resources:**

I-CAR Worker Protection Curriculum
SP/2 – [http://www.sp2.org](http://www.sp2.org)

**Attachments:**

Student curriculum is available at [www.nwtech.edu/owen/](http://www.nwtech.edu/owen/)