Course Information

Division: Industrial Technology Education
Course Number: AUT 150
Title: Automotive Painting and Refinishing
Credits: 3
Developed by: Brian Coppola
Lecture/Lab Ratio: 1 Lecture/4 Lab
Transfer Status: ASU: Non Transferable, NAU: CTE Departmental Elective, UA: Non Transferable

Activity Course: Yes
CIP Code: 47.0604
Assessment Mode: Portfolio
Semester Taught: Spring
GE Category: None
Separate Lab: No
Awareness Course: No
Intensive Writing Course: No

Prerequisites
None

Educational Value
This course is designed to teach students to perform minor body repairs.

Description
Students taking this course will study automotive painting, minor repair, and refinishing techniques. The course will provide instruction related to automotive paint types, painting and refinishing, and minor body repairs (forming, shaping and body filler use).

Supplies
Safety glasses
Students must supply all materials for their own projects.
Competencies and Performance Standards

1. **Apply proper safety procedures and processes.**

   **Learning objectives**
   
   What you will learn as you master the competency:
   
   a. Acquaint self with shop environment and shop hazards.
   b. Acquaint self with safe work procedures and practices.
   c. Accept responsibility for personal well being and practice and follow safety guidelines.

   **Performance Standards**
   
   You will demonstrate your competence:
   
   o by following safe work habits and completing related objectives listed above at an acceptable level to the instructor

   Your performance will be successful when:
   
   o learner works in a safe manner and follows good safety practices

2. **Demonstrate proper usage of auto body refinishing hand and power tools.**

   **Learning objectives**
   
   What you will learn as you master the competency:
   
   a. Demonstrate proper use of minor dent repair tools.
   b. Demonstrate proper use of hand and power sanders.
   c. Demonstrate proper use and maintenance of spray equipment.
   d. Demonstrate proper use and maintenance of small hand tools.

   **Performance Standards**
   
   You will demonstrate your competence:
   
   o by completing minor dent repair using various hand tools listed above

   Your performance will be successful when:
   
   o learner’s work project is performed in an acceptable manner to the instructor

3. **Perform written cost estimate for complete paint/vehicle refinish job.**

   **Learning objectives**
   
   What you will learn as you master the competency:
   
   a. Acquire price for primers, fillers, finish paints.
   b. Describe difference between various types of automotive paints.
   c. Tabulate total cost of vehicle paint/refinish job and/or panel repair.

   **Performance Standards**
   
   You will demonstrate your competence:
   
   o by completing a written estimate of material to the instructor

   Your performance will be successful when:
   
   o learner’s written estimate is accurate and has necessary information to complete the project with a 10% variance of accrual cost
4. **Perform minor repair of vehicle paint surface and/or steel body.**

   **Learning objectives**
   
   *What you will learn as you master the competency:*
   
   a. Demonstrate small dent repair on hood, door, or quarter panel.
   
   b. Demonstrate proper usage of body filler.
   
   c. Demonstrate how to properly use filler primer.

   **Performance Standards**
   
   *You will demonstrate your competence:*
   
   o by completing lab activities related to objectives listed and the activities are performed at an acceptable level to the instructor

   *Your performance will be successful when:*
   
   o learner completes work project in an acceptable manner to the instructor

5. **Perform written cost estimate for complete paint/vehicle refinish job.**

   **Learning objectives**
   
   *What you will learn as you master the competency:*
   
   a. Demonstrate proper making and vehicle prep techniques.
   
   b. Demonstrate ability to properly sand, prime and prep vehicle surface for painting.
   
   c. Demonstrate an ability to lay down tack, base and top finish coats of paint on entire vehicle, fender, quarter panel, or hood.

   **Performance Standards**
   
   *You will demonstrate your competence:*
   
   o by completing lab activities at an acceptable level to the instructor

   *Your performance will be successful when:*
   
   o learner completes lab activities related to objectives listed and the activities are performed at an acceptable level to the instructor

**Types of Instruction**

Classroom presentation

Lab demonstrations

Hands-on group activities

**Grading Information**

**Grading Rationale**

*Grading and weights and determinations*

Group lab activities and lab timecard and attendance 80%

Portfolio of work completed 20%
**Grading Scale**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
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<tbody>
<tr>
<td>A</td>
<td>90% - 100%</td>
</tr>
<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>
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**Pass/Fail**

A non-major student may choose to have a grade of P or F rather than a letter grade. A grade of P will require that the student receive a percentage grade of at least 70%. A grade less than this will result in a grade of F.