

# Automotive Collision Repair II

## Course Syllabus 2015-2016

### COURSE DESCRIPTION

This is a course that helps students understand the broad field of auto collision repair technology and its career possibilities. This course will help students answer the question, "Is a career in auto painting right for me?"

### COURSE OBJECTIVES

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

- Define and apply major concepts of painting and refinishing.
- Demonstrate competency in sanding, priming and painting.
- Demonstrate the ability to prep for paint including surface prep and masking.
- Practice priming and painting on demo parts

### REQUIRED TEXT & MATERIALS

3" 3 Ring Binder- with Tabs  
Safety glasses  
Work type clothing and old shoes or boots

### EVALUATION CRITERIA

	<u>Total Points</u>
Unit Tests (1-3) (50pts each)	150
Daily Performance (10pts daily- 90 days)	900
Projects (Units 1-3) (100pts each)	300
<u>Final</u> 30%	
TOTAL Points 80%	
Final 20%	

### MSD Warren Township Grade Scale

100-92.5=A  
92.4-89.5=A-  
89.4-86.5=B+  
86.4-82.5=B  
82.4-79.5=B-  
79.4-76.5=C+  
76.4-72.5=C  
72.4-69.5=C-  
69.4-66.5=D+  
66.4-62.5=D  
62.4-59.5=D-  
Below 59.5=F

### COURSE OUTLINE

#### Unit 1- Personal/Soft Skills

- Identify the appropriate resources for task completion
- Use effective interpersonal skills to complete group assignments
- Demonstrate leadership skills
- Evaluate data for work assignments
- Apply concepts for effective critical thinking, decision making, and problem-solving techniques
- Choose appropriate tools and technology for task completion
- Integrate quality assurance measures and safeguards
- Incorporate effective listening and speaking skills
- Perform mathematical calculations correctly
- Establish a responsible work ethic

- Establish accepted standards for ethical behavior
- Develop a personal career goal and develop objectives for achieving the goal
- Formulate employment and career pathway opportunities related to established career interest(s)
- Develop a continuing education plan that identifies further education and training options
- Complete exams leading to certifications recognized by business and industry
- Develop skills needed to enter the workforce
- Identify resources that keep workers current in the career field
- Develop skills and attitudes needed for lifelong learning
- Devise effective money management strategies

#### Unit 2- Safety/Shop Basics

- Perform various personal and shop safety practices
- Categorize various types of fasteners and their grades
- Use appropriate tools and unit conversion techniques to measure vehicle components
- Use proper shop safety practices while in the lab(s)—this includes wearing safety glasses (goggles) at all times while in the lab(s)
- Identify specific fasteners and their uses—this includes all of the various fasteners used on the automobile to attach a variety of body panels and pieces to the body and/or frame of the vehicle
- Identify various hand and power tools and demonstrate their safe and proper use, storage, and maintenance

#### Unit 3– Refinishing Core

- Identify metal conditioners as they relate to the different metals
- Use primers and sealers according to their uses (per manufacturer’s specifications) as a base for final finishes
- Distinguish between the different paint finishes including enamel, urethane, and lacquer finishes and their applications
- Estimate the proper amount of paint needed for a specific job
- Determine the proper type of thinner or reducer needed for a specific job
- Show proper spraying techniques using production type equipment for spraying finishes
- Demonstrate proper spraying techniques using production type equipment for spraying lacquer and enamel finishes
- Demonstrate proper use and application of base coat/clear coat systems
- Clean and maintain spray equipment to remove excess materials remaining after spraying
- Safely handle, store, and remove toxic body shop materials
- Prepare the jam area of a body part for painting ACRTII-3.12 Remove paint defects using proper procedures

#### Unit 4-Estimating

- Calculate costs for various refinishing projects to prepare accurate estimates to customers
- Calculate the flat time for refinishing a project