

Common Course Outline
AUCR 203
Collision Painting & Refinishing III
5 Semester Hours

The Community College of Baltimore County

Description

AUCR 203-5 credits- Collision Painting & Refinishing III

covers the theoretical aspects of advanced automotive refinishing. This course provides technical information for the student to gain knowledge in the proper selection of single stage topcoats, base coats, clear coats, and multi-coat finishes. Student technicians learn to identify and explain the repair procedures for common defects, which occur in collision refinishing. Student technicians will learn to identify and repair the common defects, which occur in collision refinishing. Safety is emphasized.

5 Credits: 3 Lecture hours per week; 6 Laboratory hours per week

Prerequisite(s): AUCR 113

Overall Course Objectives

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

1. Comply with personal and environmental safety practices associated with clothing, eye protection, and use of chemicals, hand tools and power equipment;
2. Identify and take necessary precautions with hazardous operations and materials according to EPA, state and local regulations;
3. Identify personal health and safety hazards according to OSHA guidelines and “Right to Know” Act;
4. Apply basecoat/clear coat for spot and panel blending or overall refinishing;
5. Color sand, buff and polish finishes where necessary;
6. Identify the types of rigid, semi-rigid or flexible plastic parts to be refinished; determine the materials and refinishing procedures;
7. Apply multi-stage (mica, pearl, etc.) coats for spot repair, panel blending or overall refinishing;
8. Tint color using formula to achieve a blendable match;
9. Identify and mix paint formula;
10. Identify blistering (raising of the paint surface); determine the cause(s) and correct the condition;
11. Identify blushing (milky or hazy formation); determine the cause(s) and correct the condition;
12. Identify crazing in the paint surface; determine the cause(s), and correct the condition;

13. Identify contaminants in the painted surface; determine the source(s) and correct the condition;
14. Identify a dry spray appearance in the paint surface; determine the cause(s) and correct the condition;
15. Identify the presence of fish-eyes (crater-like openings) in the finish; determine the cause(s) and correct the condition;
16. Identify lifting (surface distortion or shriveling) while the topcoat is being applied; determine the cause(s) and correct the condition and
17. Identify mottling or streaking in metallic and mica paint finishes; determine the cause(s) and correct the condition.

Major Topics

- I. Surface preparation
- II. Spray gun and related equipment operation
- III. Solving paint application problems
- IV. Paint mixing, matching and applying
- V. Solving paint application problems
- VI. Identify surface finish defects, causes and cures

Course Requirements

Grading/exams: Grading procedures will be determined by the individual faculty member and will be provided on the first day of class. A student can expect a minimum of eight grades from the following categories:

1. Quizzes
2. Lab projects
3. Written paper
4. Homework assignments
5. Midterm exam
6. Class participation
7. Comprehensive final

Writing: The individual faculty member will determine specific writing assignments.

Other Course Information

This course is a Collision repair core course.
This course is taught in a computerized environment.

Individual faculty members may include additional course objectives, major topics, and other course requirements to the minimum expectations stated in the Common Course Outline.

(8) Date Revised: 04/11/05