

Common Course Outline
AUCR 103
Collision Painting & Refinishing I
5 Semester Hours

The Community College of Baltimore County

Description

AUCR 103- 5 Credits-Collision Painting & Refinishing I

The course is designed to help students study the theoretical aspects of automotive refinishing. This course provides technical information for safety, personal and environmental, as well as information for the proper surface preparation, application techniques and equipment usage. The student will gain knowledge in the proper selection and application of undercoating needed for proper long-term durability.

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

Prerequisite(s): AUCR 101

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. Select approved respirator; inspect to ensure proper fit and operation: inspect the condition of the respirator filters and other components (following local and state regulations);
5. Remove, assess, and store trim and moldings;
6. Remove dirt, road grime, wax or other protective coating from area to be refinished and adjacent vehicle surfaces; wash entire vehicle;
7. Inspect and identify substrate, type of finish and surface condition; develop a plan for refinishing using a total products system;
8. Inspect, clean and determine condition and adequacy of spray guns and related equipment (air hoses, regulators, air lines, air source and spray environment);
9. Remove paint finish;
10. Dry or wet sand areas to be refinished;
11. Featheredge broken areas to be refinished;
12. Identify type of metal and apply suitable metal treatment or primer;
13. Mask trim and protect other areas that will not be refinished and

14. Apply single stage topcoat for panel blending or overall refinishing.

Major Topics

- I. Safety practices associated with refinishing
- II. Surface preparation
- III. Spray gun and related equipment operation
- IV. Paint removal
- V. Sanding for refinishing
- VI. Paint mixing
- VII. Color paint matching

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