

Common Course Outline
AUCR 113
Collision Painting & Refinishing II
5 Semester Hours

The Community College of Baltimore County

Description

AUCR 113- 5 Credits- Collision Painting & Refinishing II

helps students develop application skills and techniques for refinishing vehicles. The course provides demonstration, practice and guidance regarding vehicle refinishing, personal and environmental safety, and techniques needed to accomplish an undetectable repair. Students will develop the needed skills and application expertise for proper surface preparation, spray application techniques, and equipment operation and maintenance. Student technicians will compare the most common defects which occur in collision refinishing. The student will gain knowledge in the application of undercoating needed for proper long-term durability

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

Prerequisite(s): AUCR 103

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. Mix primer, primer-surface or primer sealer; spray onto surface of repaired area;
5. Apply two-component putty to minor surface imperfections;
6. Dry or wet sand area to which primer surface and/or two-component putty has been applied;
7. Remove dust from area to be refinished, including cracks or molding of adjacent areas;
8. Clean area to be refinished using a final cleaning solution;
9. Remove, with a tack rag, any dust or lint particles from the area to be refinished;
10. Apply suitable sealer to the area being refinished when sealing is needed or desirable;
11. Scuff sand to remove nibs or over-spray from a sealer;
12. Apply stone chip-resistant coating;
13. Restore corrosion-resistant coating, caulking and seam sealers to repaired areas;
14. Prepare adjacent panels for blending;
15. Identify rust spots; determine the cause(s) and correct the condition;

16. Identify blistering in the paint surface; determine the cause(s) and correct the condition;
17. Identify finish damage caused by bird droppings, tree sap and other natural causes; correct the condition;
18. Identify die-back conditions (dulling of the paint film showing haziness); correct the condition;
19. Identify finish damage caused by airborne contaminants (acid, soot and other industrial-related causes); correct the condition and
20. Identify buffing-related imperfections (swirl marks, wheel burns); correct the condition.

Major Topics

1. Surface preparation
2. Spray gun and related equipment operation
3. Solving paint application problems
4. Identify finish damage
5. Identify buffing-related imperfections
6. Paint blending
7. Identify OSHA guidelines
8. Identify personal health and safety hazards

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