

Common Course Outline
AUCR 204
Mechanical Components Repair II
5 semester Hours

The Community College of Baltimore County

Description

AUCR 204- 5 Credits-Mechanical Components Repair II

covers advanced principles of automotive mechanical and electrical components. Topics include personal and environmental safety and suspension and steering, electrical, brake, heating and air-conditioning, cooling, and drive train.

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

Prerequisite(s): AUCR 104

Overall Course Objectives

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

1. Perform system diagnostic and repairs on Suspension system;
2. Perform system diagnostic and repairs on Steering system;
3. Perform system diagnostic and repairs on Electrical system;
4. Perform system diagnostic and repairs on Brake system;
5. Perform system diagnostic and repairs on Heating and A/C system;
6. Perform system diagnostic and repairs on Cooling system components;
7. Perform system diagnostic and repairs on Drive Train system components;
8. Inspect, remove, and replace seatbelt and shoulder harness assembly and components in accordance with manufacturers' specifications/procedures;
9. Verify proper operation of seatbelt in accordance with manufacturers' specifications/procedures;
10. Inspect, remove, and replace track and drive assembly, lap retractor, torso retractor, inboard buckle-lap retractor, tensioners and knee bolster (blocker) in accordance with manufacturers' specifications/procedures;
11. Verify proper operation of seatbelt in accordance with manufacturers' specifications/procedures;
12. Disarm Supplemental Restraint System (SRS) in accordance with manufacturers' specifications/procedures;
13. Inspect, remove, replace, and dispose of deployed SRS modules in accordance with manufacturers' specifications/procedures;
14. Inspect, remove, replace, and dispose of non-deployed SRS in accordance with manufacturers' specifications/procedures and
15. Diagnose and repair SRS using fault codes and test equipment.

Major Topics

- I. Diagnostic and repairs on Suspension system
- II. Diagnostic and repairs on Steering system
- III. Diagnostic and repairs on Electrical system
- IV. Diagnostic and repairs on Brake system
- V. Diagnostic and repairs on Heating and A/C system
- VI. Diagnostic and repairs on Cooling system components
- VII. Diagnostic and repairs on Drive Train system components
- VIII. Diagnostic and repairs on Supplemental Restraint Systems components

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

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: 04/12/05