

Course Name: Automotive Tech III

Course #: 723 Grades: 10 – 12 Level: 0 Sem: 5X Credits: 2.5

Prerequisites: Automotive Tech I/II

Course Description: Auto III is a continuation of Auto I and Auto II where students will apply technical and practical knowledge they have achieved. Individual and group skills will be utilized to reach a common goal. Students are given the opportunity to bring personal automobiles to auto shop for diagnosing and repairing. There also will be a greater emphasis on computerized automotive systems. This course contains 9 units.

Course Standards: NJ CCCS Standard 8 Technology 8.2.12.A.1, 8.2.12.B.3, 8.1.12.F.2

Course Proficiencies: The following is a list of proficiencies the students are expected to know and be able to perform as a result of successfully completing this course.

1. Know all emergency exits.
2. Describe employment opportunities in the automotive field.
3. Describe skills needed to be an automotive technician.
4. Describe the ASE certification program.
5. Explain the different types of service manuals.
6. Explain how to use computer-based service information.
7. Use scan tool data stream values to find problems.
8. Diagnose wheel-bearing problems.
9. Diagnose suspension problems.
10. Service a strut suspension system.
11. Diagnose/Repair electronically controlled suspension system.
12. Adjust both worm gears and rack-and-pinion gears.
13. Remove/Replace rack and pinion gear.
14. Disassemble/Reassemble rack and pinion gear.
15. Service disc brake and drum brake system.
16. Bleed brake system.
17. Describe anti-lock brake operation.
18. Describe operation of traction control system.
19. Describe operation of stability control system.
20. Describe parts of an automotive computer.
21. Explain input sensors.
22. Explain output device classification and operation.

Assessment: The evaluation of student achievement in this course is based on the following:

1. Tests are given at the end of the course. These generally require one to two periods to complete.
2. Performance based assessments to assess student demonstration of skills are included within each unit.
3. Class work will be efficient with safe use of time demonstrated each period.