COURSE SYLLABUS

AUT 106 Automotive Electrical II

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:
This course is designed to provide students with the necessary skills and understanding to diagnose, repair, and maintain the automotive starting and charging systems. Mechanical and electrical operating theory for both systems as well as construction, overhaul and repair of component parts will be covered. Students will use electrical diagnostic equipment as a basis for diagnosing and repairing vehicle issues.

PREREQUISITES: YAATC Program Course – Program Approval Required

EXPECTED COMPETENCIES:
Upon completion of this course, the student will be familiar with:
- Identify basic starting and charging systems.
- Identify various components used in the different types of starting and charging systems.
- Identify the different electrical principles used in the starting and charging systems.
- Disassemble and reassemble various starters and alternators.
- Diagnose internal conditions of starters and alternators.
- Perform system diagnostics on various vehicles.
- Use various electrical diagnostic tools and equipment.
- Accumulate appropriate specifications to use in diagnosis.
- Relate results and procedures to customer

ASSESSMENT METHODS:
Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

GRADING SCALE:
90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E