DATE SUBMITTED
DATE DICC APPROVED 12/15/09
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CATALOG NO. AUTO 260

COURSE INFORMATION FORM

DISCIPLINE
Automotive Technology

COURSE TITLE
Advanced Diagnosis

CR.HR  6  LECT HR.  3  LAB HR.  6  CLIN/INTERN HR.  CLOCK HR.

CATALOG DESCRIPTION
An advanced course allowing students to specialize in one or two of eight specialty areas of automotive technology.

This course utilizes individualized instruction methods. Special emphasis will be placed on specialty electronics areas and drivability. Each student will be required to perform the duties of a service advisor and service manager.

PREREQUISITES
Be a student in good standing in the General Motors ASEP or Ford Motor Co. Asset program

EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)
Upon completion of this course, the student will be able to:

1. Demonstrate the cognitive and manipulative skills necessary to complete assigned tasks.
2. Describe and employ safe work habits, observing both personal safety and a concern for the safety of others.
3. Analyze, diagnose and determine necessary actions to solve concerns in all vehicle systems.
4. Apply procedures needed to successfully perform service operations.
5. Employ effective behaviors necessary to successfully work with others.
GENERAL EDUCATION OUTCOMES (ESO)
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.
PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

1. Demonstrate the knowledge necessary to obtain industry recognized certifications.
2. Students will demonstrate the knowledge of thorough application of safety rules and regulations.
3. Students will exhibit professional behavior.
4. Students will be able to use mathematics as it pertains to the Auto Technicians.

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Written evaluation (1-4)
2. Oral evaluation (1-5)
3. Performance exams (1-3)
4. Written Laboratory assignments (1-4)
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Safety, rules, and procedures review

II. Service management

III. Noise diagnosis
   A. Engine noises
   B. Drivetrain noises
   C. Brake noises
   D. Steering and suspension

IV. Harshness diagnosis

V. Vibration diagnosis
   A. Engine vibration
   B. Drivetrain vibration

VI. Diesel diagnosis
A. Base engine
B. Fuel systems (mechanical and electronic injection)
C. Electronic engine controls
D. Drivability diagnostic

VII. Anti-theft systems

VIII. New model updates