COMMON COURSE OUTLINE: Course discipline/number/title: AMT 2752: Engine Performance Lab

A. CATALOG DESCRIPTION
1. Credits: 7
2. Hours/Week: 14
3. Prerequisites (Course discipline/number): AMT 2750 concurrent enrollment
4. Co-requisites (Course discipline/number): AMT 2750
5. MnTC Goals (if any): NA

This course is a hands on lab and includes diagnosing, servicing and correcting problems with automotive fuel injection systems, electronic systems, and mechanical conditions related to engine performance and also the operating principles of automotive computers, sensors, and control devices. Extensive use of scan tools for diagnostics.

B. DATE LAST REVISED (Month, year): February, 2015

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Fuel Systems
2. Fuel injection
3. Electronic Engine Controls
4. Turbochargers
5. Module networking

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Diagnose engine performance problems.
2. Repair engine performance problems.
3. Diagnose and test computer controls.
4. Test Sensors.
5. Repair turbochargers.
6. Clean injectors.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING: Quantities and quality of work in lab.

G. RCTC CORE OUTCOME(S) ADDRESSED:
- Communication
- Critical Thinking
- Global Awareness/Diversity
- Civic Responsibility
- Personal/Professional Accountability
- Aesthetic Response

H. SPECIAL INFORMATION (if any): None