COMMON COURSE OUTLINE: Course discipline/number/title: AMT 1810: Engine Repair Theory

A. CATALOG DESCRIPTION
   1. Credits: 3
   2. Hours/Week: 3
   3. Prerequisites (Course discipline/number): None
   4. Co-requisites (Course discipline/number): None
   5. MnTC Goals (if any): NA

   This course covers engine design as well as diagnosis, evaluation, repair, and maintenance steps involved in restoring gasoline automotive engines to good running order.

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

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Engine Design and Operation
   2. Intro to Variable Value Timing (VVT)
   3. Intro to Scan tool Usage in Diagnosis and Evaluation of Engines
   4. Diagnosis and Evaluation of Engines
   5. Measuring Tools
   6. Upper Engine Repair Methods
   7. Lower Engine Repair Methods
   8. Final Engine Break-in and Evaluation Steps

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Identify and list various engine designs.
   2. Describe engine operation.
   3. Identify evaluation and performance steps
   4. Describe upper and lower engine repair methods.
   5. Describe engine break-in and final evaluation steps.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
   1. Tests
   2. Quizzes
   3. Assignments
   4. Worksheets

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

H. SPECIAL INFORMATION (if any): None