COMMON COURSE OUTLINE: Course discipline/number/title: AMT 1815: Engine Repair Lab

A. CATALOG DESCRIPTION
1. Credits: 7
2. Hours/Week: 14
3. Prerequisites (Course discipline/number): None
4. Co-requisites (Course discipline/number): AMT 1810
5. MnTC Goals (if any): NA

This course covers the diagnosis, repair procedure and testing and maintenance procedures for automotive engines.

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

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Intro to Scan Tool Usage for Diagnosis and Evaluation of Engines
2. Diagnosis and Evaluation of Engines
3. Repair Techniques
4. Upper Engine Maintenance and Repair
5. Lower Engine Maintenance and Repair
6. Minor Engine Machining/Cylinder Honing Techniques
7. Break-in and Final Evaluation

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Evaluate engine condition.
2. Perform upper engine repair techniques.
3. Perform lower engine repair techniques.
4. Perform minor engine machining.
5. Perform engine break-in and final evaluation.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
1. Lab projects
2. Lab assignments/worksheets
3. Individual and group projects

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

H. SPECIAL INFORMATION (if any): None