COMMON COURSE OUTLINE

Course discipline/number/title: AMT 1730: Brakes Theory

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

This course covers the theory of design, operation, diagnosis, and repair of hydraulic brake systems on automobiles and trucks.

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

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Disc and Drum Brake Design and Operation
2. Power Brake Design and Operation
3. Intro to Scan Tool Usage in Braking Systems
4. ABS Brake Design and Operation
5. Diagnosis and Repair of Brake Systems
6. Intro to Stability Control Systems

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Describe disc and drum brake systems and their operation.
2. Describe power boosters and operation.
3. List diagnosis repair and procedures of hydraulic brake systems.
4. Describe safety issues involved with brake systems.
5. Describe ABS Braking Systems and Operation

E. LEARNING OUTCOMES (MNTC): NA

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

G. RCTC CORE OUTCOME(S) ADDRESSED:

☐ Communication
☒ Critical Thinking
☐ Global Awareness/Diversity
☒ Personal/Professional Accountability

H. SPECIAL INFORMATION (if any): None