AIR BRAKE SYSTEMS — HDTT 1102

A. Course Description
   - Credits: 5.00
   - Lecture Hours/Week: 2.00
   - Lab Hours/Week: 3.00
   - OJT Hours/Week: 0
   - Prerequisites: None
   - Corequisites: None
   - MnTC Goals: None

This course covers the theory of compressed air and its application to the brake system. Air components will be identified, and their functions studied individually as well as within the entire system. Emphasis will be place on general repair and trouble-shooting. The course will cover identification of mechanical components of foundation brake system and their application, including axle and wheel components. Theory of operation, removal, repair and replacement along with diagnostic and testing procedures are covered in this course.

B. Course Effective Dates: 12/11/19 – Present

C. Outline of Major Content Areas
   - As noted on course syllabus

D. Learning Outcomes
   1. Describe and demonstrate all truck and trailer air system valves.
   2. Describe and demonstrate foundation braking systems.
   3. Demonstrate use of manufacture part systems.
   4. Demonstrate use of manufacture service manuals.
   5. Demonstrate and describe safety practices.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment
   - As noted on course syllabus

G. Special Information
   - None noted