

Commercial Vehicle Wheel End Systems

Class Description

This course covers identification, function, adjustment, and preventive maintenance inspection of current design wheel end systems on commercial vehicles.

Course Objectives

Upon completion of this course the technician will be provided the information to correctly:

- Identify correct wheel end configuration, IE: conventional, unitized, and preset types.
- Identify each component and describe its function related to each wheel end system.
- Identify current wheel end retention system designs and installation procedures.
- Properly perform a wheel bearing end play inspection procedure using a dial indicator.
- Perform conventional wheel end bearing adjustment per TMC RP 618.

Course Description

Instructor Led - classroom and shop

Any Level

8 attendees minimum - 15 attendees max

Foundation Air Disc Brake

Class Description

This course covers component identification, operation, preventative maintenance inspection, repair, adjustment, and diagnostics for common U.S. air disc brake manufacturers; Meritor, Bendix, WABCO PAN, WABCO MAXXUS, SAF Holland, and Haldex, Components, Operation, Visual Field Identification, Identification of ADB Rotor Designs, and CVSA Inspection/Out of Service criteria.

Course Objectives

Upon completion of this course the participant will be provided the information to correctly:

- Identify the current production air disc brake manufacturers assemblies by visual inspection.
- Identify each component and describe its function relating to the air disc brake.
- Describe the common operation of current production air disc brakes.
- Identify air disc brake rotor designs and inspection criteria.
- Describe the procedures used by the Commercial Vehicle Safety Alliance (CVSA) during a Department of Transportation (DOT) brake inspection.
- Describe common system malfunctions relating to the air disc brake and air brake chamber.

Course Description

Instructor Led - classroom and shop

Any Level

8 attendees minimum - 15 attendees max

Foundation Cam Brake System

Class Description

This course covers component identification, operation, preventative maintenance inspection, repair, adjustment, and diagnostics for foundation cam brakes, including automatic slack adjusters, and air brake chambers, for commercial vehicle applications.

Course Objectives

Upon completion of this course the technician will be provided the information to correctly:

- Identify each component and describe its function relating to the cam brake, automatic slack adjuster and air brake chamber.
- Discuss or demonstrate disassembly and assembly procedures relating to the cam brake, automatic slack adjuster and air brake chamber.
- Discuss or demonstrate adjustment procedures relating to the cam brake, automatic slack adjuster and air brake chamber.
- Describe the procedures used by the Commercial Vehicle Safety Alliance (CVSA) during a Department of Transportation (DOT) brake inspection.
- Describe common system malfunctions relating to the cam brake, automatic slack adjuster and air brake chamber.

Course Description

Instructor Led - classroom and shop

Any Level

8 attendees minimum - 15 attendees max