

Truck Air Brake System Fundamentals- Continued

Air Brake System Inspection, Maintenance and Testing

- Visual Inspections:
 - Introduction and Personal Safety Equipment (In Pre-Engine-Start Procedures)
 - Compressor Inspection
 - Air Tanks, Lines and Fittings, Gladhands
 - Foundation Brakes
- Air System Functional Tests:
 - Initial Pressure Build and Retention
 - Tractor Park (spring brake) System
 - Tractor Service Brake System (and Tractor Protection Valve)
 - Low Air Warning System
 - Pressure Rise-Time Recovery (85 - 100 PSI) and Governor Cut-Out
 - Pressure Rise-Time Recovery
 - Governor Cut-Out
 - Compressor Cut-in
 - Supply and Service Reservoir Draining
 - Trailer Supply, Spring and Service Brakes

Simple Troubleshooting Techniques

- Identification of common failures
- Basic troubleshooting steps

Course Deliverables

Following the course, participants will be able to:

- Understand basic pneumatic air system principals
- Demonstrate an understanding of air system precautions and safety
- Understand the basic functions of an Brake Air System
- Identify each air component and understand its function
- Identify and properly use required air brake testing tools
- Understand and demonstrate brake air system component test procedures

Client Responsibilities

In order for this training to be effective, the client will need to provide the following powered equipment, basic tools, and an appropriate shop and training environment:

Shop Needs:

- Clean and uncluttered area in the shop with adequate lighting to be utilized during the practical portion of the training.
- Vehicles to be utilized during the training (quantities depend on size of class)
 - 1 Tractor (w/air brakes)
 - 1 Straight truck (w/air brakes) or
 - 2 of the same type of vehicle if the others is not available

Required Tools:

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| ● Access to basic hand tools | ● Wheel chocks |
| ● Glad Hand Dead Heads | ● Creepers |
| ● Safety equipment for all participants | ● Flash lights |
| ● Safety glasses | ● Rags |

Class Room:

Adequate classroom space free of distractions to include:

- Presentation projector & Screen (notify Fleet Group in advance if we need to provide the projector)
- Seating and table for all participants and trainer
- Catered lunch
- The names of each participant at least 6 days prior to the training session