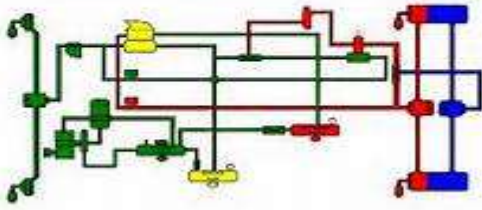


DUAL AIR BRAKE SYSTEM



DIESEL TECHNOLOGY

BASIC AIR BRAKES TRAINING

Your Instructor – Carl Tesch, ASE Master Certified

Carl was a Diesel Technology instructor at Lake Area Tech in Watertown for 32 years, including 6 years as department chairman. His duties included curriculum development, class room instruction and supervision of lab work projects. He has a B.S. degree in Education from SDSU. He assisted in developing workbooks and standards for Diesel Technology curriculum with Multistate Academic and Vocational Curriculum Consortium which were used in diesel tech programs in 13 states. Carl is an ASE Master Certified heavy truck technician (all nine areas) and was invited by ASE to help write the ASE certification tests for heavy truck electrical and heavy truck brakes.

Books Required: *Bendix Air Brake Handbook, Midland-Grau Workbook and Learning Aid for Air Brake Systems; Midland-Grau Troubleshooter's Guide for Fleet Air Brake System Maintenance.*

Course Objective: This course provides the student with the information needed to adjust, diagnose, and repair truck brake systems.

Specific Course Objectives:

1. Discuss safety considerations and complete brake systems safety worksheet.
2. Discuss foundation brake design, components, and operation.
4. Discuss procedures for adjusting foundation brakes (hydraulic, S-cam, air-disc, wedge brakes).
5. Adjust S-cam foundation brakes.
6. Discuss air brake chamber operation and diagnosis.
7. Manually cage spring brakes.
8. Remove, install, and test service chamber diaphragm.
9. Identify, inspect, and overhaul foundation brake components and determine needed repairs.
10. Discuss air supply system components, operation, and diagnosis.
11. Discuss park and emergency air system components, operation, and diagnosis.
12. Locate, identify, and inspect air brake air system components and determine needed repairs.
13. Perform air system operational checks.
14. Discuss anti-lock brake operation, adjustment, and diagnosis.



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- Dates/Times

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