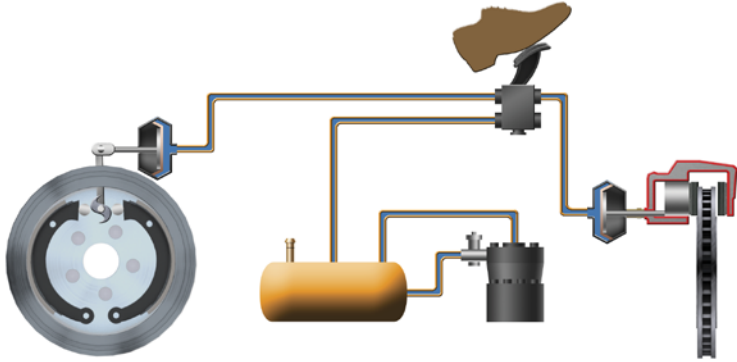


BRAKING SYSTEMS: PNEUMATIC

eLearning courses designed to increase productivity and profits



Learning made Simple, Visual, and Interactive

The Braking Systems: Pneumatic course introduces learners to the key principles of pneumatic braking systems, the common components that make up a pneumatic braking system, and how foundation brakes function. Learners in quality, manufacturing, or sales roles in the industry will also find value in this course.

Credit Hours **2**

Learning Objectives

- Define the principles associated with pneumatic braking systems.
- Recognize the common components that make up the pneumatic braking system.
- Understand how the foundation brakes work with the pneumatic braking system.
- Identify the components of a pneumatic drum brake and explain how it functions.
- Identify the components of a pneumatic disc brake and explain how it functions.

Table of Contents

I. Basic Concepts

- Pneumatic Braking Principles
 - o Friction
 - o Braking Temperature
 - o Vehicle Stopping Distance
 - o Brake Force Distribution
- Common Components
 - o Compressor
 - o Governor
 - o Air Dryer
 - o Air Tank
 - o Air Lines and Hoses
 - o Service Brake
 - o Spring Brake

II. Pneumatic Drum Brakes

- Brake Drum
- Brake Spider Plate
- Brake Chamber
- Slack Adjuster
- Camshaft
- Brake Shoe
- Cam Roller
- Shoe Anchor Pins
- Shoe Retainer Spring
- Shoe Return Spring

III. Pneumatic Disc Brakes

- Disc
 - o Solid Discs
 - o Ventilated Discs
 - o Cross-Drilled Discs
 - o Slotted Discs
 - o Slotted and Cross-Drilled Discs
- Caliper
- Brake Pads
- Brake Chamber

