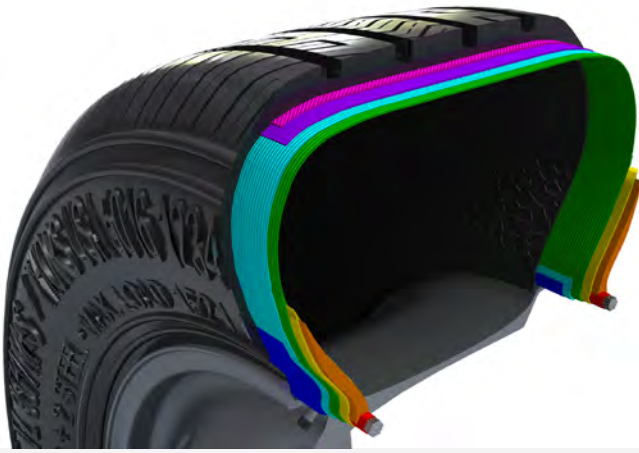


# PNEUMATIC TIRES: TIRE TERMINOLOGY

*eLearning courses designed to increase productivity and profits*



## Learning made Simple, Visual, and Interactive

The Pneumatic Tires: Terminology course is designed to provide learners in the tire industry, including original equipment manufacturers (OEMs), salespeople, distributors, suppliers, and tire service personnel, and any other interested individuals with a basic overview of pneumatic tires. Through helpful animations and interactives, learners are introduced to the basic aspects of pneumatic tires and their major components.

Credit Hours **2**

## Learning Objectives

- Understand the basic functions of a tire.
- Recognize the differences between tube-type/tubeless tires and bias/radial tires.
- Identify and define the components of pneumatic tires.
- Discuss the different roles each component plays within a tire.

## Table of Contents

### I. Pneumatic Tire Basics

- **Tube Type vs. Tubeless**
  - o Tube-Type Construction
  - o Tubeless Construction
- **Bias Tires**
- **Radial Tires**

### II. Pneumatic Tire Components

- **Bead**
  - o Bead Function and Material
  - o Common Bead Bundle Shapes
  - o Bead Reinforcement
  - o Beads in Bias vs. Radial Tires

#### • **Chafer**

- o Chafer Function
- o Chafer Material

#### • **Inner Liner**

- o Inner Liner Function and Material
- o Inner Liners for Tubeless Tires

#### • **Carcass Plies**

- o Carcass Plies Function
- o Carcass Plies Material
- o Number of Carcass Ply Layers
- o Carcass Plies in Bias vs. Radial Tires

#### • **Breaker Plies/Belts**

- o Breaker Plies/Belts Function and Material
- o Breaker Plies/Belts in Bias vs. Radial Tires

#### • **Sidewall**

- o Sidewall Function and Material
- o Sidewall Structure

#### • **Tread**

- o Tread Function and Material
- o Tread Construction
- o Additional Tread Constructions
- o Tread Patterns

