

# BASIC INDUSTRIAL TIRE SERVICE (ITS)

The **Basic Industrial Tire Service (ITS)** Program is a 200-level training and certificate program that is focused on pneumatic, solid resilient, press-on and polyurethane-filled tires used in industrial applications. Like all TIA training programs, it is comprised of different modules and covers the service procedures for different types of tire and rim assemblies.

Following is a list of the 11 Modules that make up the **Basic Industrial Tire Service (ITS)** Program:

## Module 1 – Introduction

This module covers the required personal protective equipment (PPE) as well as the inflation equipment required by Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1910.177.

## Module 2 – Tires

In every TIA training program, Module 2 is dedicated to different types of tires including sizing information and nomenclature. Since pneumatic, solid resilient and press-on tires have unique size designations, this module explains the differences so they can make sure the proper fitment is used on industrial machines.

## Module 3 – Rims, Wheels & Hubs

This module is focused on the different types of rims, wheels and hubs that are used on pneumatic, solid and press-on tires. It also includes information on dimensions and explains how they are measured.

## Module 4 – Hydraulic Press Operation & Maintenance

Solid resilient and press-on tires require a specialized hydraulic press. This module explains the basic principles for press operation and covers the regular inspection and maintenance guidelines that should be followed.



## Module 5 – Jacking & Lifting, Install and Remove

This module covers the proper lifting and support procedures for different types of industrial equipment. It also addresses the steps for installing and removing different types of industrial tire assemblies.

## Module 6 – Single-Piece Service Procedures

While most tires used on single piece rims are tubeless pneumatic, a special type of solid resilient tire is also used on a single-piece rim. This module addresses the service procedures for both types of tires on single-piece rims.

## Module 7 – Two-Piece Service Procedures

There are two types of two-piece rims used in industrial applications: traditional rim base with a side ring and bolt-together. This module covers the service procedures for pneumatic and solid resilient tires on both types of two-piece rims.

## Module 8 – Three-Piece Service Procedures

This module is focused on pneumatic and solid resilient tires used on three-piece rims. It explains the step-by-step service procedures for standard three-piece rims and three-piece rims that include a bead seat band.

## Module 9 – Tube-Type/Tubeless Conversion

Continental and Michelin have developed special systems that allow tubeless tires to be mounted on rims that typically require an innertube and flap. This module covers the installation procedures for both systems on two-piece and three-piece rims.

## Module 10 – Press-On Demount/Mount

Press-on tires have unique demount and mount procedures that require special tools and equipment. This module addresses the step-by-step guidelines for demounting and mounting press-on tires on different types of hubs.

## Module 11 – Poly Fill

In applications where the flat proof qualities of solid resilient and press-on tires are needed but not available, standard tubeless and tube-type tires can be filled with polyurethane. This module covers the basic procedures and guidelines for installing polyurethane fill in standard tire and wheel assemblies.

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