

BASIC AUTOMOTIVE TIRE SERVICE (ATS)

Basic Automotive Tire Service (ATS) is a 200-level minimum skills training and certificate program that outlines and explains the guidelines for servicing passenger and light truck tire and wheel assemblies. It includes the step-by-step procedures for: lifting the vehicle; removing the assembly; demounting, mounting and inflating; balancing; tire repair; and wheel installation. Basic ATS places special emphasis on the relationship between torque and clamping force so technicians have a thorough understanding of the necessary steps to ensure wheel retention on steel and aluminum wheels.

Following is a list of the 10 Modules that make up the Basic Automotive Tire Service (ATS) Program:

Module 1: Introduction

Covers personal protective equipment (PPE) and general shop safety practices.

Module 2: Tires

Covers passenger and light truck tire sizing, sidewall inflation, nomenclature and application in addition to replacement and rotation guidelines.

Module 3: Wheels & Fasteners

This module is focused on wheel identification and dimensions for determining bolt circle, offset and rim width. It also includes information on the different types of fasteners and the corresponding bolt holes that are necessary.

Module 4: Raising the Vehicle

Addresses the step-by-step procedures and safety guidelines for lifting a vehicle with a two-post above-ground lift or floor jack and jack stands.

Module 5: Tire/Wheel Assembly Removal

Covers the procedures for removing the assembly from the vehicle including wheel locks and wheel covers.

Module 6: RIST

This module details the RIST procedure, which stands for Remove, Inspect, Snug and Torque. Following the RIST procedure is the key to proper wheel installation by ensuring that the proper fastener torque creates sufficient clamping force to secure the wheels to the vehicle without damaging components.

Module 7: Demounting, Mounting & Inflation

Covers the step-by-step procedures for demounting, mounting and inflating passenger and light truck tires on rims with valve stem or band-mounted sensors.

Module 8: Balance & Run-Out

Addresses the basic principles of tire and wheel assembly balance and run-out including the use of adhesive weights and pin-plates to secure the assembly to the balancer.

Module 9: Puncture Repair

Covers the general industry guidelines for puncture repairs in passenger and light truck tires as well as the step-by-step procedures for installing one-piece and two-piece repair systems.

Module 10: Tire Conditions Analysis

This module describes the basic procedure for inspecting tires including measuring tread depth in addition to identifying common out-of-service tire conditions and their probable causes.



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