

# TRAINING GUIDE

TIRE PRESSURE MONITORING SYSTEMS (TPMS)

AUTOMOTIVE TIRE SERVICE (ATS)

COMMERCIAL TIRE SERVICE (CTS)

EARTHMOVER TIRE SERVICE (ETS)

FARM TIRE SERVICE (FTS)

TPMS



FTS



ETS



CTS



ATS



*IMPROVING SAFETY  
ON AND OFF THE HIGHWAY*

The Tire Industry Association is committed to providing educational services that will evolve with technology. From training and certification for experienced employees to basic training for new hires, TIA offers programs that can be utilized by large and small companies throughout the tire industry.

Training employees increases the level of safety in your business, reduces liability and improves your profits. Your customers expect quality products and service with safety in mind. You can make a difference in setting the standards for competence and professionalism by training your employees. As a member of TIA, you can take advantage of discounted opportunities to make that difference. Join the more than 85,000 tire technicians that have been trained and/or certified by TIA and start your training today!

## BASIC LEVEL TRAINING

TIA offers **Basic Training (200-Level) Programs** for automotive, commercial, farm, and earthmover tire service. Every employee in the shop requires basic training, and TIA can help by offering a variety of programs that are easily accessible and designed to meet minimum federal training standards. The 200-Level programs are directed toward new hires and experienced employees that need documented proof of training or a refresher course. All TIA Training and Certificate Programs have provisions for students to receive a TIA Certificate of Completion once they successfully complete the final test. Basic Level Training is available in DVD/Workbook format as well as in a convenient and accessible format on the TIA Online University.

Each **Basic Level Training Program** is available in DVD/Workbook format (see order form on pages 3-4) as well as in a convenient and accessible format on the TIA Online University (see page 5).

For the DVD/Workbook format, each program consists of the following:

- Training Kit: DVD, Instructor's Guide with Lesson Plans, 1 Student Workbook, and 1 Final Exam.
- Additional Student Workbooks: 1 Student Workbook with 1 Final Exam.
- Additional Final Exams: 1 Final Exam only (once you have Workbooks, you can reuse those and just order Additional Final Exams).

## CERTIFIED LEVEL TRAINING

Certified Tire Service Training is available for automotive and commercial tire service. **TIA's Certified Technician Programs (300-Level)** are unparalleled in the industry. Students that successfully complete these programs must participate in a training seminar conducted by a TIA Certified Instructor and demonstrate a level of understanding by achieving a passing score on the final exam. Once the technicians complete this process, they receive an ATS or CTS certificate and uniform patches. This level is designed for the experienced technician.

**TIA's Certified Instructor Program (400-Level)** is the most advanced level of training TIA has to offer. Certified Instructor Programs are conducted in a training center and reflect leading-edge technology. The combination of classroom instruction, hands-on participation and demonstrations creates a unique learning environment for students with varying levels of experience. TIA's Certified Instructor Program improves the image of the tire and wheel service industry by creating a network of professionals to educate technicians.

## **ADVANCED TIRE PRESSURE MONITORING SYSTEMS (TPMS)**

Advanced Tire Pressure Monitoring Systems (TPMS) is a 250-level program that focuses on the manufacturer-specific requirements for the most popular domestic and import vehicle/sensor manufacturers. This program is designed to give the experienced technician more in-depth information regarding the identification, maintenance, reprogramming, and diagnostic procedures and includes an 8.5 x 11 version of TIA's TPMS Relearn Chart that includes the relearn summaries and replacement part numbers for most domestic and import vehicles. Advanced TPMS has 4 Modules:

- Module 1 – TPMS Identification
- Module 2 – TPMS Service Requirements
- Module 3 – TPMS Relearn Procedures
- Module 4 – TPMS Diagnostics

## **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. Basic Automotive Tire Service has 10 Modules:

- Module 1 – Introduction
- Module 2 – Tires
- Module 3 – Wheels & Fasteners
- Module 4 – Raising the Vehicle
- Module 5 – Tire/Wheel Assembly Removal
- Module 6 – Torque & Clamping Force
- Module 7 – RIST
- Module 8 – Demounting, Mounting & Inflation
- Module 9 – Balance and Run-out
- Module 10 – Puncture Repair

## **BASIC COMMERCIAL TIRE SERVICE (CTS)**

*Also available in Spanish*

Companies that wish to provide OSHA compliance training for new hires and experienced technicians using an in-house program without certification can participate in the Basic Commercial Tire Service (CTS) Program (200-level). Basic Commercial Tire Service has 12 Modules:

- Module 1: Safety
- Module 2: Basic Tire Info
- Module 3: Rims and Wheels
- Module 4: OSHA Regulations
- Module 5: Jacking and Lifting
- Module 6: Torque
- Module 7: Wheel End Safety
- Module 8: Hub-Pilot Wheels
- Module 9: Stud-Pilot Wheels
- Module 10: Demountable Rims
- Module 11: Single-Piece
- Module 12: Multi-Piece

## **BASIC EARTHMOVER TIRE SERVICE (ETS)**

*Also available in Spanish*

TIA's 200-level Basic Earthmover Tire Service (ETS) Training Program for OTR tire technicians outlines the minimum skills and safety guidelines for servicing one-piece, three-piece, five-piece, and double gutter OTR assemblies. Basic Earthmover Tire Service has 15 Modules:

- Module 1 – Introduction
- Module 2 – Tires, Rims & Valves
- Module 3 – Service Truck Operation
- Module 4 – Site Preparation & Equipment Lifting
- Module 5 – Hydraulic Bead Breakers & Rams
- Module 6 – Service One-Piece on Machine
- Module 7 – Service Three-Piece on Machine
- Module 8 – Service Five-Piece on Machine
- Module 9 – Service Double Gutter on Machine
- Module 10 – Service One-Piece Loose
- Module 11 – Service Three-Piece Loose
- Module 12 – Service Five-Piece Loose
- Module 13 – Wheel & Rim Fastening Systems
- Module 14 – Install & Remove Wheel Fitment
- Module 15 – Install and Remove Rim Fitment

## **BASIC FARM TIRE SERVICE (FTS)**

Basic Farm Tire Service (FTS) is a 200-level minimum skills training and certificate program that outlines and explains the guidelines for servicing farm, agricultural and construction tire and wheel assemblies. It includes the step-by-step procedures for demounting, mounting and inflating single, dual and 3-piece assemblies in addition to service truck operation and liquid ballast installation/removal. Basic Farm Tire Service has 11 Modules and an Appendix:

- Module 1 – Introduction
- Module 2 – Tires
- Module 3 – Rims, Wheels, and Valves
- Module 4 – Service Truck Operation and Maintenance
- Module 5 – Lifting the Machine
- Module 6 – Hydraulic Tool Operation and Maintenance
- Module 7 – Single Piece Demount, Mount & Inflate on Machine
- Module 8 – Single Piece Demount, Mount & Inflate off Machine
- Module 9 – Dual Demount, Mount & Inflate
- Module 10 – 3-Piece Demount, Mount & Inflate on Machine
- Module 11 – Install and Remove Liquid Ballast
- Appendix

# TIRE INDUSTRY ASSOCIATION TRAINING PROGRAM ORDER FORM



Date Ordered \_\_\_\_\_

Contact \_\_\_\_\_ Email \_\_\_\_\_

Company \_\_\_\_\_

Shipping Address (No PO Boxes) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip+4 \_\_\_\_\_

Country (if other than U.S.) \_\_\_\_\_ Postal Code \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

## ADVANCED TPMS (ENGLISH)

						Quantity	Total Cost
<b>Instructor Kit – Includes Instructor’s Guide, DVD, one Student Workbook and one Test Booklet</b>							
Member	\$150					_____	_____
Non-member	\$300					_____	_____
<b>Student Workbooks:</b>	<b>1-10</b>	<b>11-25</b>	<b>26-50</b>	<b>51-99</b>	<b>100+</b>		
Member	\$35 ea.	\$32 ea.	\$30 ea.	\$27 ea.	\$25 ea.	_____	_____
Non-member	\$65 ea.	\$62 ea.	\$60 ea.	\$57 ea.	\$55 ea.	_____	_____
<b>Additional Tests:</b>							
Member	\$20 ea.					_____	_____
Non-member	\$40 ea.					_____	_____

## BASIC ATS (ENGLISH)

						Quantity	Total Cost
<b>Instructor Kit – Includes Instructor’s Guide, DVD, one Student Workbook and one Test Booklet</b>							
Member	\$150					_____	_____
Non-member	\$300					_____	_____
<b>Student Workbooks:</b>	<b>1-10</b>	<b>11-25</b>	<b>26-50</b>	<b>51-99</b>	<b>100+</b>		
Member	\$35 ea.	\$32 ea.	\$30 ea.	\$27 ea.	\$25 ea.	_____	_____
Non-member	\$65 ea.	\$62 ea.	\$60 ea.	\$57 ea.	\$55 ea.	_____	_____
<b>Additional Tests:</b>							
Member	\$20 ea.					_____	_____
Non-member	\$40 ea.					_____	_____

## BASIC CTS (ENGLISH)

						Quantity	Total Cost
<b>Instructor Kit – Includes Instructor’s Guide, DVD, one Student Workbook and one Test Booklet</b>							
Member	\$150					_____	_____
Non-member	\$300					_____	_____
<b>Student Workbooks:</b>	<b>1-10</b>	<b>11-25</b>	<b>26-50</b>	<b>51-99</b>	<b>100+</b>		
Member	\$35 ea.	\$32 ea.	\$30 ea.	\$27 ea.	\$25 ea.	_____	_____
Non-member	\$65 ea.	\$62 ea.	\$60 ea.	\$57 ea.	\$55 ea.	_____	_____
<b>Additional Tests:</b>							
Member	\$20 ea.					_____	_____
Non-member	\$40 ea.					_____	_____

## BASIC CTS (SPANISH)

						Quantity	Total Cost
<b>Instructor Kit – Includes Instructor’s Guide, DVD, one Student Workbook and one Test Booklet</b>							
Member	\$150					_____	_____
Non-member	\$300					_____	_____
<b>Student Workbooks:</b>	<b>1-10</b>	<b>11-25</b>	<b>26-50</b>	<b>51-99</b>	<b>100+</b>		
Member	\$35 ea.	\$32 ea.	\$30 ea.	\$27 ea.	\$25 ea.	_____	_____
Non-member	\$65 ea.	\$62 ea.	\$60 ea.	\$57 ea.	\$55 ea.	_____	_____
<b>Additional Tests:</b>							
Member	\$20 ea.					_____	_____
Non-member	\$40 ea.					_____	_____

**Total Page 1** .....

# TIRE INDUSTRY ASSOCIATION TRAINING PROGRAM ORDER FORM



## BASIC ETS (ENGLISH)

**Instructor Kit** – Includes Instructor's Guide, two DVDs, one Student Workbook and one Test Booklet

Member \$995  
Non-member \$1,995

**Student Workbooks:**

	<b>1-9</b>	<b>10-19</b>	<b>20+</b>
Member	\$95 ea.	\$85 ea.	\$75 ea.
Non-member	\$195 ea.	\$185 ea.	\$175 ea.

**Additional Test Booklets:**

	<b>1-9</b>	<b>10-19</b>	<b>20+</b>
Member	\$75 ea.	\$65 ea.	\$50 ea.
Non-member	\$175 ea.	\$165 ea.	\$150 ea.

Quantity \_\_\_\_\_ Total Cost \_\_\_\_\_

## BASIC ETS (SPANISH)

**Instructor Kit** – Includes Instructor's Guide, two DVDs, one Student Workbook and one Test Booklet

Member \$995  
Non-member \$1,995

**Student Workbooks:**

	<b>1-9</b>	<b>10-19</b>	<b>20+</b>
Member	\$95 ea.	\$85 ea.	\$75 ea.
Non-member	\$195 ea.	\$185 ea.	\$175 ea.

**Additional Test Booklets:**

	<b>1-9</b>	<b>10-19</b>	<b>20+</b>
Member	\$75 ea.	\$65 ea.	\$50 ea.
Non-member	\$175 ea.	\$165 ea.	\$150 ea.

Quantity \_\_\_\_\_ Total Cost \_\_\_\_\_

## BASIC FTS (ENGLISH)

**Instructor Kit** – Includes Instructor's Guide, DVD, one Student Workbook and one Test Booklet

Member \$295  
Non-member \$600

**Student Workbooks:**

	<b>1-10</b>	<b>11-25</b>	<b>26-50</b>	<b>51-99</b>	<b>100+</b>
Member	\$55 ea.	\$52 ea.	\$50 ea.	\$47 ea.	\$45 ea.
Non-member	\$85 ea.	\$82 ea.	\$80 ea.	\$77 ea.	\$75 ea.

**Additional Tests:**

Member	\$30 ea.
Non-member	\$60 ea.

Quantity \_\_\_\_\_ Total Cost \_\_\_\_\_

**Total Page 2** .....

**Total from Page 1** .....

**Total Amount Due** .....

**Shipping & Handling extra based on weight of order.**

## PAYMENT INFORMATION

- My check payable to TIA is attached for \$ \_\_\_\_\_
- Please invoice me (TIA members only). Use my PO# \_\_\_\_\_
- Please charge my credit card.  MasterCard  Visa  American Express

Complete credit card information below:

Card Number \_\_\_\_\_ Exp. Date \_\_\_\_\_

Card Holder Name (please print) \_\_\_\_\_

Card Holder Signature \_\_\_\_\_

**Mail payment by check to:**  
Tire Industry Association  
1532 Pointer Ridge Place, Suite G  
Bowie, Maryland 20716-1883

**Fax payment by invoice or credit card to:**  
301-430-7283

## TRAINING ANYTIME, ANYWHERE!

As the industry leader in tire technician training and certification, the Tire Industry Association (TIA) now offers all of its Basic Level Training Programs in a convenient and accessible format on the [TIA Online University](#).

Technicians can access the most comprehensive, up-to-date tire service training anywhere there is an internet connection! Our Basic Level training is designed for new hires as part of their orientation and can also be used for experienced technicians in need of documented training.

The self-study modules include video learning, knowledge checks, final exam and a skills demonstration form. The [TIA Online University](#) offers flexibility to busy technicians by allowing them to study at their own pace. They can view one module at a time and come back later to continue. Or they can complete the entire program in one sitting.



PREVIEW TRANSCRIPT

TIA Transcript		TACS		
Username	JSMITH12	Company	TIRE INDUSTRY ASSOCIATION	
First Name	JOE	Shop	ALL SHOPS	
Last Name	SMITH			
Course Title	Quiz Score	Status	Start Date	End Date
BASIC CTS	96%	PASS	03/29/2012	03/29/2012
ADVANCED TPMS	97%	PASS	03/29/2012	03/29/2012
FLEET TIRE SERVICE	96%	PASS	03/30/2012	03/30/2012
BASIC TPMS	82%	PASS	03/30/2012	03/30/2012
BASIC ETS	91%	PASS	03/31/2012	04/01/2012
BASIC ATS	98%	PASS	03/29/2012	04/04/2012

Export Close

Shop Managers and Company Administrators also have the convenience of adding and maintaining their employees to the system and running real-time reports on technician progress and test results.

An educated workforce results in higher productivity, lower liability risks and happier customers! Let us show you how the [TIA Online University](#) can help you better your business today!

Your company can receive online access to TIA's basic level training for a flat annual fee per location – which **includes a TIA Membership**. Each location can train an unlimited number of technicians on each course, and shop managers will have easy access to reporting and monitoring functionality.

For more information, contact Christine Hoogenboom by email at [choogenboom@tireindustry.org](mailto:choogenboom@tireindustry.org) or by calling 800-876-8372, ext. 106.

## PRICING OPTIONS

### Option 1 – Includes Certificates for each Technician

(A full membership must be purchased at HQ location plus a \$20 membership fee each year per location.)

#### 1-500 locations

- Advanced TPMS = \$155/location per year
- Basic Automotive Tire Service = \$155/location per year
- Basic Commercial Tire Service = \$155/location per year
- Basic Earthmover Tire Service = \$285/location per year
- Basic Farm Tire Service = \$230/location per year

#### 501-1000 locations

- Advanced TPMS = \$145/location per year
- Basic Automotive Tire Service = \$145/location per year
- Basic Commercial Tire Service = \$145/location per year
- Basic Earthmover Tire Service = \$275/location per year
- Basic Farm Tire Service = \$220/location per year

### Option 2 – Does NOT include Certificates for Technicians

(A full membership must be purchased at HQ location plus a \$20 membership fee each year per location.)

#### 1-500 locations

- Advanced TPMS = \$55/location per year
- Basic Automotive Tire Service = \$55/location per year
- Basic Commercial Tire Service = \$55/location per year
- Basic Earthmover Tire Service = \$135/location per year
- Basic Farm Tire Service = \$80/location per year

#### 501-1000 locations

- Advanced TPMS = \$45/location per year
- Basic Automotive Tire Service = \$45/location per year
- Basic Commercial Tire Service = \$45/location per year
- Basic Earthmover Tire Service = \$125/location per year
- Basic Farm Tire Service = \$70/location per year

Companies that wish to take technician training to the highest level can participate in the Certified Tire Service programs TIA offers for Commercial Tire Service (CTS) and Automotive Tire Service (ATS). These programs are designed for experienced employees with at least one year of hands-on experience. In addition to successful completion of the final exam, students must show proficiency in the shop by demonstrating the ability to perform various skills that must be witnessed and signed off on. Each student who successfully passes the course receives a Certificate and 13 Uniform Patches. Recertification is required every two years via an online exam.

Certified Technician Courses must be taught by a TIA Certified Instructor. TIA offers these Certified Instructor courses throughout the year, and those who attend and successfully complete the course will be qualified to teach the Certified Technician Courses.

## **CERTIFIED AUTOMOTIVE TIRE SERVICE (ATS)**

TIA's **400-Level Certified Instructor classes** are held in cities all over North America. This 3.5 day class covers all aspects of passenger/light truck tire service, and also teaches the attendees how to instruct a 300 Level Certified Technician course in the field. Following is a list of the 15 Modules that make up the Certified ATS Program:

- Module 1 – Introduction
- Module 2 – Tires
- Module 3 – Wheels & Fasteners
- Module 4 – Raising the Vehicle
- Module 5 – Tire/Wheel Assembly Removal
- Module 6 – Torque & Clamping Force
- Module 7 – RIST
- Module 8 – Demounting, Mounting & Inflation
- Module 9 – Balance and Run-Out
- Module 10 – Puncture Repair
- Module 11 – Tire Conditions Analysis
- Module 12 – TPMS Identification
- Module 13 – TPMS Service Requirements
- Module 14 – TPMS Relearn Procedures
- Module 15 – TPMS Diagnostics

For Certified ATS Instructor class registration information, go to [www.tireindustry.org/training](http://www.tireindustry.org/training).

## **CERTIFIED COMMERCIAL TIRE SERVICE (CTS)**

TIA's **400-Level Certified Instructor classes** are held in Denver and Baltimore. This 3 day class covers all aspects of medium/heavy truck tire service, and also teaches the attendees how to instruct a 300 Level Certified Technician course in the field. Following is a list of the 16 Modules that make up the Certified CTS Program:

- Module 1 – Safety
- Module 2 – Basic Tire Info
- Module 3 – Rims & Wheels
- Module 4 – OSHA Regulations
- Module 5 – Emergency Road Service
- Module 6 – Jacking & Lifting
- Module 7 – Torque
- Module 8 – Wheel End Safety
- Module 9 – Hub-Pilot Wheels
- Module 10 – Stud-Pilot Wheels
- Module 11 – Demountable Rims
- Module 12 – Single-Piece Mount/Demount & Inflation
- Module 13 – Multi-Piece Mount/Demount & Inflation
- Module 14 – Balancing
- Module 15 – Repair
- Module 16 – Load and Inflation

For Certified CTS Instructor class registration information, go to [www.tireindustry.org/training](http://www.tireindustry.org/training).

## TIRE INDUSTRY ASSOCIATION CUSTOMIZED TRAINING



TIA offers all of our training programs as Customized Training. What this means is that we can come to you and hold any of our courses at your facility, using your equipment. For example, if you wanted us to come and hold a 3-day Basic Farm course using the DVDs and Workbooks, but also do hands-on training on the equipment you use, we can do that! Or maybe you just need us to come for a day and do some hands-on TPMS training on your new scan tool, or troublesome vehicles. We can customize our training to fit your needs. We will use our DVDs, books and tests, but the hands-on can be totally customized.

Our training schedule gets booked pretty quickly, so if you are planning to hold a customized class, you can expect it to be at least three or four months from when you call. We will do our best to get to you in as soon as we can. The cost for us to come and hold a class is as follows:

- \$1000/day training fee
- Per student cost for training books
- TIA Travel Expenses (flight, hotel, car rental and meals)

The more people you have, the more cost effective it is, as the per day and travel fees are the same regardless of the number of people. It's recommended to have at least eight people or more in a class to get the most for your money. But there are no minimum requirements.

Each class is different, so the best way to decide exactly what you need, and how much it will cost, is to contact Christine Hoogenboom, TIA Director of Training, and she can help you determine the best course of action. Contact her by email at [choogenboom@tireindustry.org](mailto:choogenboom@tireindustry.org) or call her at 800-876-8372, ext. 106.



## TIA TRAINING SUPPORT STAFF

If you have any questions or would like more information about our training offerings, please call one of our staff members.

### MELISSA DIFIORE

#### TIA Training & Certification Manager

800-876-8372, ext. 107  
mdifiore@tireindustry.org

### STEPHEN HEAPS

#### TIA Training & Certification Coordinator

800-876-8372, ext. 136  
sheaps@tireindustry.org

### CHRISTINE HOOGENBOOM

#### TIA Director of Training

800-876-8372, ext. 106  
choogenboom@tireindustry.org

## TIA TECHNICAL STAFF

If you have technical questions regarding proper service procedures or industry standards and requirements, please contact the appropriate staff member below.

### SEAN MacKINNON

#### TIA Director of Automotive Tire Service

smackinnon@tireindustry.org  
Sean can answer questions regarding passenger/light truck tire service and TPMS.

### MATT WHITE

#### TIA Director of Tire Service

mwhite@tireindustry.org  
Matt can help you with issues regarding commercial, farm, OTR and industrial tires.

### KEVIN ROHLWING

#### TIA Vice President of Training

krohlwing@tireindustry.org  
Contact Kevin if you have specific questions about OSHA or any regulatory issues in the industry.



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301.430.7280  
fax: 301.430.7283