

# Diesel Technician Training

*High value skills training for industry*

The National Transportation Center's **Diesel Technician Training** is designed to provide the basics needed to enter into a new career with excellent pay and job satisfaction. Each area of training has been created with input received from diesel repair and truck shops across the United States. Graduates of this program will be well-prepared for entry-level Diesel Technician positions.

## How it works

This program is a combination of online and hands-on practical training. Areas of training range in duration from two (2) to five (5) weeks. Web-based training prepares the way for classroom and in-shop training. These courses deliver the training you need to move your career forward!

- **NTC 100: Introduction to Foundations and Safety (3 Weeks)**
- **NTC 111: Electrical and Electronics 1 (5 weeks)**
- **NTC 112: Braking Systems - Hydraulic and Air (3 weeks)**
- **NTC 113: HD Steering, Suspension and Driveline (4 weeks)**
- **NTC 114: Heating and Air Management Systems (2 weeks)**
- **NTC 115: Engines and Engine Performance (3 weeks)**



This training program provides participants with training and validation for high value skills needed in today's heavy duty diesel repair facilities. All training is built around each participant gaining a thorough knowledge of the basics in preparation for more advanced training. Participants will first be introduced to shop safety, operation of shop equipment, and environmental safety practices. Participants will then be taught the basic fundamentals of electrical and electronic systems, heating and ventilation (HVAC) systems, steering and suspension components, braking systems, and diesel engine performance.

**Contact:** [service@nationaltransportationcenter.com](mailto:service@nationaltransportationcenter.com)

# Essential Diesel Technician Skills Curriculum

Online and shop experiences are constantly monitored and evaluated to ensure that each participant is given support in each training area. Final completion of each area is measured by a practical exam. A completion certificate is given at the end of each area of training.

## Trained competencies



1. Describe the basic laws of electricity and circuit construction
2. Diagnose and repair starting and charging systems
3. Explain HVAC system operation and demonstrate repair and diagnostic procedures; includes trailer refrigeration
4. Perform inspections and repair on HD steering and suspension systems, both air and coil spring
5. Service and repair HD brake systems including disc, drum, and anti-lock braking (ABS) systems
6. Troubleshoot and correct engine driveability concerns; use scantool to diagnose and repair diesel engine systems

## Key knowledge



1. Electricity theory basics
2. Electrical circuit basics
3. Starting and charging system diagnosis
4. HVAC system principles and operation
5. HD steering and suspension
6. HD disk and drum brake systems
7. Engine performance diagnosis and repair
8. Scantool usage

## Costs



We want to help all individuals access our training and develop a great career. We support individuals with special, competitive programs including scholarships, industry-sponsored training funds, and job-placement support.

See current costs and funding opportunities here:  
<https://nationaltransportationcenter.com/funding/>



### Built by Experts

Harlan Wrenn has trained countless drivers and technicians and developed cutting-edge training throughout his career featuring electronic modules, software, simulators, and original diagnostic equipment.

His wealth of experience starts as a farm boy playing with engines in Southside Virginia and proceeds through service in the US Army (with a tour in Viet Nam), teaching in community college, work as a heavy equipment technician, and ownership of his own automotive repair and trucking businesses.