CLEAN FUEL TECHNOLOGIES™

Compressed Natural Gas Fuel System Inspector Certification Course (CNG-FSI) TC5-0001

This course is 16 hours of classroom and hands-on training and 4 hours for written exams and hands-on exam. Upon successful completion of the course the Technicians will receive individual certification to validate their demonstrated abilities to inspect compressed natural gas (CNG) fuel systems in accordance with regulation and OEM manufacturing procedures. Course covers the inspection of Compressed Natural Gas (CNG) containers, system valves, pressure relief devices (PRDs), vent systems, proper installation and other fuel system components of CNG vehicles. The certification allows the individual to conduct CNG fuel system inspection in accordance with FMVSS Title 49 CFR Subtitle B Chapter V Part 571 Subpart B No. 304.

Prerequisite: Recommend experienced technicians, managers, supervisors, and designed engineers currently working in the NGV industry.

Deliver Mode: In-Class

Learning Objectives

Student will be able to

- Describe safety considerations for natural gas vehicle service and repairs.
- Describe driver pre-trip and post-trip inspections.
- Describe CNG fuel system requirements and installation requirements.
- Demonstrate detailed inspection.
  - ❖ **Describe:** Evaluated by multiple choice test
  - ❖ **Demonstrate:** Evaluated by hands-on task performance

Course Outline

1. Compressed Natural Gas Safety

- Introduction to CNG
- Properties of CNG
- CNG Safety
- Tech Safety Tips
- Facility Requirements
- Depressurizing Yellow and Orange Tubes
- Defueling Red Tubes

2. CCFT Operators Training

- Pre-Trip and Pos- Trip Inspection
- Fueling Safety
- Emergency Response
- Safe Towing Practices

3. Code and Regulations

- Manufactures Inspection Recourses
- NFPA 52 2013 through 2019
- DOT/FMVSS 304
- CGA C-6.4

4. Inspection Requirements

- Inspection Forms, Inspection PASS sticker, Inspection FAIL Stickers
- Markings and Cylinder Labels
- Types of Damage, Levels of Damage, Measuring Damage
- Inspection Prep, Inspection Tools, Vehicle History, General Inspection
- Installation, Mounting Brackets, Vent System, Housing and Covers
- Pressure Relief Device (PRD)s.
- CNG Components, Tube and Fitting Inspection
- Inspection Report and Decommission