



Cummins Clean Fuel Technologies Fuel System Installation Professional (CNG-CFSI) TC04-0001

This course is 16 hours of classroom and hands-on training for CCFT CNG fuel system installation technicians, QA representative, managers, supervisors, and Final-Stage Vehicle Integrator/Manufacturer (FSVIM) locations. Course covers regulatory requirements for CNG fuel system installation. Also, CCFT safety and fuel system installation requirements. At the completion of this course technician will be a certified Cummins Clean Fuel Technologies fuel system installer. *No prerequisite required for this course.*

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 fuel system installation and inspection.
 - ❖ **Describe:** Evaluated by multiple choice test
 - ❖ **Demonstrate:** Evaluated by hands-on task performance

Course Outline

1. CCFT CNG Safety Awareness Training

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

2. CCFT Operators Training

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

3. CCFT Fuel System Troubleshooting

- Electrical Troubleshooting
- Mechanical Components Troubleshooting
- Fitting and Tube Leak Troubleshooting
- Regulator Troubleshooting

4. CCFT Fuel System Installation Training

- Installation Requirements, Codes, and Standards
- Installation of Fuel System, tubing, vent system, and electrical
- Fitting Installation and Tube Bending
- System Fueling, Leak Testing, and Inspecting

5. CCFT Fuel System Maintenance and Services Training

- Inspection and Leak Testing
- Fitting and O-ring Installation
- Component Replacement
- Regulator Pressure Adjustment and Regulator Replacement
- Electrical Component Replacement
- PRD and Vent System Inspection and Repairs