



Cummins Clean Fuel Technologies Compressed Natural Gas Safety (CNG-SA) TC03-0001

This course is 4-hours of classroom training for individuals working on or around NGV vehicles to include: drivers, technicians, managers, supervisors, HSE, risk management, and dispatchers. Course covers Properties of Compressed Natural Gas (CNG), Codes, regulations and standards for CNG vehicles, Health hazards of natural gas, PPE and safety tips when working with CNG, Facility requirements for CNG, Emergency action plans, and Safety considerations for natural gas vehicle service and repairs. *Course is centered on natural gas only; not propane or other fuels. *No prerequisite required for this course.*

Deliver Mode: In-Class

Learning Objectives

student will be able to

- Describe Health Hazards of Natural Gas
- Describe use of PPE and safety tips when working with CNG
- Describe Facility Requirements for CNG
- Describe Emergency Action Plan
- Describe Pressured Relief Device (PRD) operation.
- Demonstrate fuel system depressurizing and defueling procedures.
- Describe safety considerations for natural gas vehicle service and repairs.
 - ❖ **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. Fuel System Safety Components

- Pressure Relief Device (PRD) operations
- Pressure Relief Device (PRD) locations
- Pressure Relief Device (PRD) vents and vent direction