



**NGV Essentials and Safety Practices  
CNG Fuel System Inspector Training  
CNG Fuel System Inspector Certification**

Centre Area Transportation Authority (CATA) Administrative Office  
2081 W. Whitehall Road, State College, PA 16801

**October 16 to 19, 2018**

### **NGV Essentials and Safety Practices**

With a focus on safety, the NGV Essentials and Safety Practices training teaches technicians and support team members the fundamentals of working with natural gas as a vehicle fuel and both CNG and LNG fuel systems.

This course is a prerequisite for technicians who will take CNG Fuel System Inspector Training.

The learning objectives for this course include:

- Describe the properties and characteristics of natural gas.
- Identify the differences between natural gas and other liquid fuels.
- Identify all major low- and high-pressure CNG fuel system components; describe their operation and safety precautions.
- Describe the differences between dedicated, bi-fuel and dual-fuel NGVs.
- Identify and employ safety practices when working with natural gas-powered vehicles.
- Be familiar with CNG fueling station equipment, safety devices, operation and fueling procedures.
- Identify CNG and LNG depressurizing and defueling methods and the related safety precautions.

### **CNG Fuel System Inspector Training**

The CNG Fuel System Inspector Training is a two-day course intended to fully prepare your technicians to become qualified Compressed Natural Gas (CNG) Fuel System Inspectors as recommended by FMVSS and NGV2. The Course teaches attendees the proper techniques for inspecting the entire on-board CNG fuel system, including fuel storage cylinders. The Course also provides instruction on satisfying the National Highway Transportation Safety Administration requirement that all on-board vehicle CNG fuel storage cylinders be visually inspected every three years or 36,000 miles, whichever comes first, and after any vehicle accident or fire. In short, your technicians will learn the proper methods to use to ensure vehicle fuel system safety and integrity.

The learning objectives for this course include:

- Describe the properties and characteristics of natural gas
- Identify the four types of CNG cylinders, their construction methods, certification requirements, current and past manufacturers
- Identify the causes of cylinder failure
- Identify all codes and standards that apply to CNG cylinders and other fuel system components
- Identify all CNG high-pressure components, and their purpose
- Identify and assess CNG cylinder and fuel system installations
- Interpret all information from a CNG cylinder label
- Describe the steps and methods to safely perform a CNG fuel system inspection in conformance with established standards



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- Describe the final disposition process for CNG cylinders and fuel system components
- Describe the defueling options for CNG powered vehicles

### **CNG Fuel System Inspector Certification**

NGVi's CNG Fuel System Inspector Certification provides an independent assessment of the knowledge and application of skills necessary for technicians to competently conduct a CNG fuel system inspection according to all applicable codes and standards, and industry best practices. Certification designates that participants have sufficiently demonstrated the work-related knowledge, skills and competencies required to perform the tasks of a CNG fuel system inspector.

This NGVi CNG Fuel System Inspector Certification exam consists of 60 multiple choice questions and participants will have 3 hours to complete the exam. A minimum score of 80% is required to obtain certification. Certification is valid for 5 years from the date of issue.

Client will receive notification of test results within 2 weeks of the exam date. Participants who successfully pass the exam will be mailed an official ID card and certificate. Participants who do not pass the exam will be allowed one complimentary re-take. The options for re-take include:

- Registering to participate in a scheduled live testing session in our headquarters in Las Vegas;
- Registering to participate in a scheduled live testing session in any of our public training venues; or
- Registering for our online exam.

Please note that the entire testing process will be video recorded and participants will be expected to:

- Present photo identification to verify identity prior to the start of the exam;
- Remain silent during the exam;
- Remain in the testing room until the exam has been turned in;
- Forego use of electronic devices; and
- Bring no study materials into the testing room.

If any of these requirements are not followed, the individual's exam will be declared invalid; participant will fail, and will not be eligible for the complimentary re-take. Refunds will not be made for failure to follow the testing procedure.

Please be aware that the exam will include questions relating to all applicable national codes, standards and industry best practices. Though not mandatory, we suggest that students obtain copies of NFPA 52 (2016 and 2013), as well as CGA C-6.4, in order to thoroughly prepare for the exam.



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**Presented by:** Leo Thomason, Natural Gas Vehicle Institute

**Cost:** \$290 per person. PPTA [Cancellation Policy](#) applies.

*This PennTRAIN-sponsored option is being offered at a substantially lower cost to agencies than the option NGVI is bringing directly to PA in September!*

**Hours:**

- Tuesday, October 16 – 10 AM to 5 PM
- Wednesday, October 17, 2018 – 8 AM to 5 PM
- Thursday, October 18, 2018 – 8 AM to 5 PM
- Friday, October 19, 2018 – 8 AM to 12 PM

**Lodging:** Courtyard by Marriott (1730 University Drive, State College, PA 16801)

Room block is available for the nights of October 15-18, 2018 at the government rate of \$102/night plus taxes. [Click here to book online](#) or call 814-238-1881 (ask for PennTRAIN block). Rooms will be released on September 28 (or when sold out).

**Parking:** Free, on-site parking is available at the Courtyard by Marriott. Parking at CATA is free, but limited. Spots in front of the CATA Administrative Office must remain open for visitors throughout the day. Since we will be in building all day, we ask that you park across the street, in the brick spots behind the Ferguson Township Police Department.

**Meals:** Lunch and breaks will be provided. Please inform Sara Bowden at [sara@ppta.net](mailto:sara@ppta.net) of any dietary restrictions at least one week in advance.

**Attire:** Casual. Some of the training will be in a classroom. Some will be in the maintenance shop. Please dress accordingly. Because it can be a challenge to keep the classroom at a temperature that accommodates everyone, we recommend bringing a sweater or jacket to stay comfortable.

**Attendee Registration:**

Submit to Sara Bowden, PennTRAIN Program Coordinator

Email: [sara@ppta.net](mailto:sara@ppta.net) Fax: 717-234-7176

Mail: 600 N 3<sup>rd</sup> Street, 4<sup>th</sup> Floor, Harrisburg, PA 17101

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Organization Name

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Attendee Name

Attendee Title

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Attendee Email Address

Attendee Phone Number

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Organization Contact Name:

Organization Contact Email Address:

**Method of Payment:**

Check enclosed # \_\_\_\_\_

OR

Please invoice me