Alternative Fuels and Vehicles Training Resource Guide for Transit Districts

NREL SUBCONTRACT REPORT

Thomason & Associates, Inc.
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Las Vegas, NV 89147
(702) 254-4180
Table of Contents

Introduction ................................................................. 3

Recommendations: for Transit Employees ................................ 4

Quick Guide: Training for Transit Districts .............................. 5

Training Courses:
Transit Bus Manufacturers ............................................. 7

Training Courses:
Engine Manufacturers .................................................. 10

Training Courses:
Alternative Fuel Retailers/Fuel Station Packagers ................. 12

Training Courses:
Educational Institutions ................................................. 14

Training Courses:
Government Agencies .................................................. 16
This technician is preparing a Ford F-150 bi-fuel compressed natural gas pickup for an exhaust emissions test.
Introduction

A successful alternative fuel vehicle (AFV) program for transit agencies requires effective training for all employees. Without proper training, employees can be unnecessarily concerned about safety issues, misinformed about procedures, and perhaps even unsupportive of the organization’s desire to use AFVs.

To help ensure successful AFV programs within transit agencies, the U.S. Department of Energy’s (DOE) Technical Assistance Project (Tiger Teams). The Tiger Teams Project is sponsored by DOE’s Clean Cities Program, which supports public and private partnerships that deploy AFVs and build supporting infrastructure. The Tiger Teams developed this handbook for transit districts and related organizations that need ready access to available alternative fuels and vehicles training.

In this guide you’ll find recommendations for basic training needs, designated by classes or types of employees. Remember: These are only recommendations. Each transit agency should thoroughly assess its training needs and implement a training program specific to those needs.
How to Use This Handbook

The table below provides a basic overview of the types of training that would be of greatest benefit to specific technicians and other transit professionals. Once you determine the training needs of you or your staff, consult the Quick Guide on pages 5 and 6, which provides an overview of the training opportunities offered by most manufacturers, suppliers, and education and training organizations.

Following the Quick Guide are sections for specific training courses. These sections offer summaries of companies and organizations that offer training programs related to alternative fuels and vehicles. These summaries describe the types of training available, length of training, target audience, location of training, major topics, and contact information.

Although our goal was to develop the most comprehensive handbook possible, we may have missed some organizations that provide training. We apologize for any inconvenience this may cause.

### Recommendations: Basic Training for Transit Employees

<table>
<thead>
<tr>
<th>Training Topics</th>
<th>Vehicle Technicians</th>
<th>Vehicle Fuelers</th>
<th>Drivers</th>
<th>Fueling Stations Maintenance Technicians</th>
<th>Facility or Plant Engineers</th>
<th>Department Managers</th>
<th>Marketing Staff</th>
<th>Instructors and Trainers</th>
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<tbody>
<tr>
<td>Bus/Vehicle Fuel Systems</td>
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<td>✓</td>
<td>✓</td>
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<td>Engines</td>
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<td>✓</td>
<td>✓</td>
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<tr>
<td>Fueling Station Components/In Depth</td>
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<tr>
<td>Safety</td>
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<td>✓</td>
<td>✓</td>
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<td>Driver Training</td>
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<tr>
<td>AFV Program Overview</td>
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<td>✓</td>
<td>✓</td>
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</tr>
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</table>
## Quick Guide: Training for Transit Districts

<table>
<thead>
<tr>
<th>Manufacturer/Supplier/Education</th>
<th>Bus/Vehicle Fuel Systems Institution</th>
<th>Engines</th>
<th>Fueling Practices</th>
<th>Fueling Stations Components</th>
<th>Safety</th>
<th>Driver Training</th>
<th>Management Briefings</th>
<th>Length of Training</th>
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<tbody>
<tr>
<td><strong>Transit Bus Manufacturers</strong></td>
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<tr>
<td>Blue Bird Body Co. Rene Dykes</td>
<td></td>
<td>✔️</td>
<td>CNG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4-6 Hours</td>
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<tr>
<td>(478) 822-2232</td>
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<tr>
<td>ElDorado National Khalil Subat</td>
<td></td>
<td>✔️</td>
<td>CNG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Varies Based on Customer Need</td>
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<tr>
<td>(909) 591-9557</td>
<td></td>
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<tr>
<td>NABI Cliff Henke</td>
<td></td>
<td>✔️</td>
<td>CNG</td>
<td>LNG</td>
<td></td>
<td></td>
<td></td>
<td>Varies</td>
</tr>
<tr>
<td>(818) 610-0330</td>
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<td>Neoplan USA James Gaspard</td>
<td></td>
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<tr>
<td>(719) 336-3256</td>
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<td>New Flyer Industries</td>
<td></td>
<td>✔️</td>
<td>CNG</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1-3 Days</td>
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<tr>
<td>Ronald Baleja (204) 934-4875</td>
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<td>Orion Bus Industries</td>
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<td>✔️</td>
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<td></td>
<td>Up to 4 Hours</td>
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<tr>
<td>Garry Van Nederynen</td>
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<td>(800) 716-7466</td>
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<td>Thomas Built Bus</td>
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<td></td>
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<td>Varies</td>
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<tr>
<td>Ed Swaim (336) 841-5770</td>
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<td><strong>Engine Manufacturers</strong></td>
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<td>Caterpillar Inc. Stanley Preston</td>
<td></td>
<td>✔️</td>
<td>LPG Electric</td>
<td>CNG</td>
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<tr>
<td>(309) 494-5993</td>
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<td>LNG LPG</td>
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<td>(812) 350-6698</td>
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<td>Detroit Diesel Corp. Kirk Gavaghan</td>
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<td>CNG</td>
<td></td>
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<td>3 Days</td>
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<tr>
<td>(313) 592-5292</td>
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<tr>
<td>Dale Puhrmann (319) 292-5844</td>
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</table>
# Quick Guide: Training for Transit Districts

<table>
<thead>
<tr>
<th>Manufacturer/Supplier/Education</th>
<th>Bus/Vehicle Fuel Systems Institution</th>
<th>Engines</th>
<th>Fueling Practices</th>
<th>Fueling Stations Components</th>
<th>Safety</th>
<th>Driver Training</th>
<th>Management Briefings</th>
<th>Length of Training</th>
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<tbody>
<tr>
<td>ANGI Donine Schmidt (608) 868-4626, #224</td>
<td></td>
<td>✔ ✔ ✔</td>
<td>✔ CNG</td>
<td>✔ ✔ ✔</td>
<td>✔</td>
<td></td>
<td></td>
<td>Up to 1 Week</td>
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<tr>
<td>Clean Energy Jim Harger (562) 493-2804</td>
<td></td>
<td>✔ ✔ ✔</td>
<td>✔ CNG LNG</td>
<td>✔ ✔ ✔</td>
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<td></td>
<td></td>
<td>&lt; 1 Day</td>
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<tr>
<td>Greenfield Compression Tony Feger (972) 889-2400, #122</td>
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<td>✔ ✔ ✔</td>
<td>✔ CNG</td>
<td>✔ ✔ ✔</td>
<td>✔</td>
<td></td>
<td></td>
<td>Up to 1 Week</td>
</tr>
<tr>
<td>Pinnacle CNG Company Drew Diggins (915) 686-5989</td>
<td></td>
<td>✔ ✔ ✔</td>
<td>✔ CNG H&lt;sub&gt;2&lt;/sub&gt;</td>
<td>✔ ✔ ✔</td>
<td>✔</td>
<td></td>
<td></td>
<td>8 Hours/Year</td>
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<tr>
<td>Trillium Jennifer Detapia (801) 531-1166</td>
<td></td>
<td>✔ ✔ ✔</td>
<td>✔ CNG</td>
<td>✔ ✔ ✔</td>
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<td>&lt; 1 Day</td>
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## Educational Institutions

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<tr>
<th>Institution</th>
<th>Conversion</th>
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<tbody>
<tr>
<td>College of the Desert (DDC, Cummins, Deere) James Heffel (760) 773-2596</td>
<td>✔ Conversion</td>
<td>✔ ✔ ✔</td>
<td>✔ CNG Electric</td>
<td>✔ ✔</td>
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<td>✔ ✔ ✔</td>
<td>40 Hours</td>
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<tr>
<td>Gateway Community College Tammy Eaton (203) 285-2397</td>
<td></td>
<td>✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
<td>Varies</td>
</tr>
<tr>
<td>NAFTC Al Ebron (304) 293-7882</td>
<td></td>
<td>✔ ✔</td>
<td>✔ ✔ ✔</td>
<td>✔ ✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>Varies</td>
</tr>
<tr>
<td>NGV Institute Leo Thomason (702) 254-4180, #22</td>
<td></td>
<td>✔ ✔</td>
<td>✔ ✔</td>
<td>✔ ✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>1-4 Days, Depending on Course</td>
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<tr>
<td>Rio Hondo College Mike Rojas (562) 692-0921, #3712</td>
<td></td>
<td>✔ ✔</td>
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<td>U.S. DOT FTA Office of Safety &amp; Security Harry Saporta (202) 366-2896</td>
<td></td>
<td>✔ ✔</td>
<td>✔ ✔</td>
<td>✔</td>
<td>✔</td>
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<td>1-3 Days</td>
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</tbody>
</table>

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**Alternative Fuels and Vehicles Training Resource Guide for Transit Districts**
**Blue Bird Body Company**
Rene Dykes, Manager, Service Training  
**TELEPHONE:** (478) 822-2232  
**FAX:** (478) 822-2461  
**drdykes@blue-bird.co**  
www.blue-bird.com

**PRODUCTS OFFERED:** Blue Bird Body Company manufactures CNG and LPG buses.
**TRAINING AVAILABLE:** The company offers training for customers who purchase buses from Blue Bird and for those who request training. There is no separate fee for training.
**LENGTH OF TRAINING:** Four to six hours
**TARGET AUDIENCE:** Vehicle technicians
**TRAINING LOCATION:** Customer site, Blue Bird factory
**TRAINING CATALOG:** No
**TRAINING TOPICS:** Vehicle fuel system, including fuel storage tanks, valves, supply lines; CNG basics; safety information. Training is updated annually.
**FOLLOW-UP TRAINING:** As needed

**ElDorado National**
Khalil Subat, Chief Engineer  
**TELEPHONE:** (909) 591-9557  
**FAX:** (909) 591-5285  
**ksubat@eldorado-ca.com**  
www.enconline.com

**PRODUCTS OFFERED:** ElDorado National manufactures CNG, LNG, and LPG buses.
**TRAINING AVAILABLE:** The company offers training for customers who purchase buses from ElDorado National and for those who request training. There is no separate fee for training.
**LENGTH OF TRAINING:** Varies based on customer needs.
**TARGET AUDIENCE:** Vehicle technicians, drivers
**TRAINING LOCATION:** Customer site
**TRAINING CATALOG:** No
**TRAINING TOPICS:** Fuel System: Function and maintenance, precautions and procedures, maintenance and inspection. Training is updated when products change.
**FOLLOW-UP TRAINING:** As needed

**North American Bus Industries (NABI)**
Cliff Henke, Manager of External Affairs  
**TELEPHONE:** (818) 610-0330  
**FAX:** (818) 610-0335  
**cliff.henke@nabiusa.com**  
www.nabiusa.com

**PRODUCTS OFFERED:** NABI manufactures CNG and LNG buses.
**TRAINING AVAILABLE:** The company offers training for customers who purchase buses from NABI and from those who request training. There is no separate fee for training.
**LENGTH OF TRAINING:** Determined by customer specifications.
**TARGET AUDIENCE:** Vehicle technicians, vehicle fuelers, drivers, department managers
**TRAINING LOCATION:** Customer site
**TRAINING CATALOG:** No
**TRAINING TOPICS:** Fuel storage and supply system basics, troubleshooting, and maintenance. Curriculum is revised based on specifications for the particular buses ordered.
**FOLLOW-UP TRAINING:** As needed
Neoplan USA
James Gaspard, Vice President, Sales
TELEPHONE: (719) 336-3256  FAX: (719) 336-4201
james.gaspard@neoplanusa.com  www.neoplanusa.com

PRODUCTS OFFERED: Neoplan USA manufactures CNG transit buses.
TRAINING AVAILABLE: The company offers training for customers who purchase buses from Neoplan and for those who request training. The cost of training is included in the contract for bus purchases.
LENGTH OF TRAINING: Varies based on customer requirements.
TARGET AUDIENCE: Vehicle technicians, drivers, department managers
TRAINING LOCATION: Customer site
TRAINING CATALOG: No
TRAINING TOPICS: Fuel/engine system: Training is updated according to specifications for customer’s order.
FOLLOW-UP TRAINING: As needed

New Flyer Industries Ltd.
Ronald Baleja, Training Administrator
TELEPHONE: (204) 934-4875  FAX: (204) 224-0248
ronald_baleja@newflyer.com  www.buspart.com

PRODUCTS OFFERED: New Flyer Industries manufactures natural gas powered buses.
TRAINING AVAILABLE: The company offers training for customers who purchase buses from New Flyer and for those who request training. Training is available, by invitation, to other educational/training institutions. There is no separate fee for training customers.
LENGTH OF TRAINING: Three days
TARGET AUDIENCE: Vehicle technicians, fuelers, drivers, department managers
TRAINING LOCATION: Customer site
TRAINING CATALOG: Yes
TRAINING TOPICS: Fuel storage system and fueling of the systems. Training is updated as product updates are received.
FOLLOW-UP TRAINING: As requested

Orion Bus Industries
Garry Van Nederynen, Manager of Customer Communication and Technical Training
TELEPHONE: (800) 716-7466  FAX: (315) 678-8414
gvannederynen@orionbus.com  www.orionbus.com

PRODUCTS OFFERED: Orion Bus Industries manufactures CNG, LNG, and diesel hybrid electric buses.
TRAINING AVAILABLE: The company offers training for customers who purchase buses from Orion and for those who request training. On occasion, case-by-case training is made available for local college instructors or technicians from other transit authorities. The cost of training is included in the contract for the bus purchases.
LENGTH OF TRAINING: Up to four hours
TARGET AUDIENCE: Vehicle technicians
TRAINING LOCATION: Customer site
TRAINING CATALOG: No
TRAINING TOPICS: CNG safety and precaution, system components and location, fuel system diagnosis and repair, and fuel system maintenance. Training is updated as new product information is obtained.
FOLLOW-UP TRAINING: Available at a negotiated cost.
**Training Courses:** Transit Bus Manufacturers

**Thomas Built Bus**  
Ed Swaim, Product Manager  
**Telephone:** (336) 841-5770  
**Fax:** (336) 889-2589  
ed.swaim@thomasbus.com  
www.thomasbus.com

<table>
<thead>
<tr>
<th><strong>Products Offered:</strong></th>
<th>Thomas Built Bus manufactures CNG buses.</th>
</tr>
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<tbody>
<tr>
<td><strong>Training Available:</strong></td>
<td>The company offers training for customers who purchase buses from Thomas Built and for those who request training. There is no separate fee for training.</td>
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<tr>
<td><strong>Length of Training:</strong></td>
<td>Varies based on customer needs.</td>
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<tr>
<td><strong>Target Audience:</strong></td>
<td>Vehicle technicians</td>
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<tr>
<td><strong>Training Location:</strong></td>
<td>Customer site</td>
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<tr>
<td><strong>Training Catalog:</strong></td>
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<tr>
<td><strong>Training Topics:</strong></td>
<td>CNG fuel system. Training is updated when fuel system changes.</td>
</tr>
<tr>
<td><strong>Follow-Up Training:</strong></td>
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</table>
## Engine Manufacturers

### Caterpillar Inc.
Stanley Preston, Supervisor, Truck Training  
**TELEPHONE:** (309) 494-5993  
**FAX:** (309) 494-5990  
**preston_stanley_e@cat.com**  
**www.cat.com**

**PRODUCTS OFFERED:** Caterpillar manufactures CNG, LPG, and electric engines for use in transit applications.

**TRAINING AVAILABLE:** The company offers training to Caterpillar dealer training instructors. Customer training is available through Caterpillar dealers.

**LENGTH OF TRAINING:** Varies

**TARGET AUDIENCE:** Caterpillar dealer training instructors

**TRAINING LOCATION:** Caterpillar training facility

**TRAINING CATALOG:** Yes

**TRAINING TOPICS:** Caterpillar engines and fuel systems. Training is revised every two to three years.

**FOLLOW-UP TRAINING:** As requested

### Cummins Westport Inc.
Scott Davidson, Marketing and Sales Leader  
**TELEPHONE:** (812) 350-6698  
**sdavidson@cumminswestport.com**  
**www.cumminswestport.com**

**PRODUCTS OFFERED:** Cummins Westport manufactures CNG, LNG, and LPG engines for use in transit applications.

**TRAINING AVAILABLE:** The company offers training for customers who purchase buses using Cummins Westport engines and for those who request training. There is a separate fee for training determined and assessed by the Cummins Distributor Training Department.

**LENGTH OF TRAINING:** Varies

**TARGET AUDIENCE:** Vehicle technicians

**TRAINING LOCATION:** Customer facility

**TRAINING CATALOG:** Yes

**TRAINING TOPICS:** Product (engine) overview/familiarization, maintenance, troubleshooting, and repair. Training is updated frequently.

**FOLLOW-UP TRAINING:** As requested

### Detroit Diesel Corporation
Kirk Gavaghan  
**TELEPHONE:** (313) 592-5292  
**FAX:** (313) 592-7066  
**kirk.gavaghan@detroitdiesel.com**  
**www.detroitdiesel.com**

**PRODUCTS OFFERED:** Detroit Diesel manufactures CNG engines for heavy-duty applications, including transit buses.

**TRAINING AVAILABLE:** The company offers training for customers who purchase buses using Detroit Diesel engines and for those who request training. Fees are charged for training.

**LENGTH OF TRAINING:** Three days

**TARGET AUDIENCE:** Vehicle technicians

**TRAINING LOCATION:** Customer facility

**TRAINING CATALOG:** Yes

**TRAINING TOPICS:** Diagnostics, troubleshooting, tear down. Curriculum is modified as products change.

**FOLLOW-UP TRAINING:** As requested
John Deere Power Systems
Dale Puhrmann, Manager, Customer and Service Support
TELEPHONE: (319) 292-5226  FAX: (319) 292-5844
puhrmanndalel@johndeere.com  www.deere.com

PRODUCTS OFFERED: John Deere manufactures CNG engines for transit bus applications.
TRAINING AVAILABLE: The company offers training for customers and other interested parties.
LENGTH OF TRAINING: Two days
TARGET AUDIENCE: Vehicle technicians
TRAINING LOCATION: Usually customer facility
TRAINING CATALOG: Yes
TRAINING TOPICS: Advance training courses on Deere engine and fuel systems.
FOLLOW-UP TRAINING: Available
### Automotive Natural Gas Inc. (ANGI)

- **Donine Schmidt**, Service Manager  
  - **Telephone**: (608) 868-4626, #224  
  - **dschmidt@angiinternational.com**  
  - **www.angiinternational.com**

<table>
<thead>
<tr>
<th><strong>Products Offered</strong></th>
<th>ANGI provides CNG station packages, components, consulting, and maintenance.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Training Available</strong></td>
<td>The company offers training for customers who purchase equipment or services from ANGI. The fee is $500 for the first technician; $250 for all additional technicians.</td>
</tr>
<tr>
<td><strong>Length of Training</strong></td>
<td>Varies</td>
</tr>
<tr>
<td><strong>Target Audience</strong></td>
<td>Fueling station maintenance technicians, vehicle fuelers, department managers</td>
</tr>
<tr>
<td><strong>Training Location</strong></td>
<td>ANGI facility</td>
</tr>
<tr>
<td><strong>Training Catalog</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Training Topics</strong></td>
<td>Vehicle fueling and safety; start-up of fueling station; maintenance of ANGI systems, including controls, valves, and compressor.</td>
</tr>
<tr>
<td><strong>Follow-Up Training</strong></td>
<td>As requested</td>
</tr>
</tbody>
</table>

### Clean Energy

- **Jim Harger**, Senior Vice President, Sales and Marketing  
  - **Telephone**: (562) 493-2804  
  - **Fax**: (562) 493-4532  
  - **www.enrgfuel.com**

<table>
<thead>
<tr>
<th><strong>Products Offered</strong></th>
<th>Clean Energy provides CNG and LNG fueling station packages, consulting and maintenance services, grant writing, and grant administration.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Training Available</strong></td>
<td>The company offers training for customers who purchase equipment or services from Clean Energy. There is no separate fee for training.</td>
</tr>
<tr>
<td><strong>Length of Training</strong></td>
<td>Varies based on customer needs.</td>
</tr>
<tr>
<td><strong>Target Audience</strong></td>
<td>Vehicle fuelers and drivers</td>
</tr>
<tr>
<td><strong>Training Location</strong></td>
<td>Customer facility</td>
</tr>
<tr>
<td><strong>Training Catalog</strong></td>
<td>No</td>
</tr>
<tr>
<td><strong>Training Topics</strong></td>
<td>How to fuel vehicles, fueling station component familiarization, diagnostics</td>
</tr>
<tr>
<td><strong>Follow-Up Training</strong></td>
<td>Available</td>
</tr>
</tbody>
</table>

### Greenfield Compression

- **Tony Feger**  
  - **Telephone**: (972) 889-2400, #122  
  - **Fax**: (972) 234-4829  
  - **www.gfgroup.com**

<table>
<thead>
<tr>
<th><strong>Products Offered</strong></th>
<th>Greenfield provides CNG fueling station packages, fueling station components, consulting, and maintenance services.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Training Available</strong></td>
<td>The company offers training for customers who purchase equipment or services from Greenfield. There is no additional fee for start-up training (Level 1). Level 2-3 of advanced training costs $1,000 per day per company.</td>
</tr>
<tr>
<td><strong>Length of Training</strong></td>
<td>Start-up training two to four hours. Levels 2-3 range from four to five days depending on the complexity of the customer’s station.</td>
</tr>
<tr>
<td><strong>Target Audience</strong></td>
<td>Fueling station maintenance technicians, vehicle fuelers, department managers</td>
</tr>
<tr>
<td><strong>Training Location</strong></td>
<td>Customer site or other nearby location</td>
</tr>
<tr>
<td><strong>Training Catalog</strong></td>
<td>No</td>
</tr>
</tbody>
</table>
| **Training Topics** | Level 1: Start-up—Familiarization and Safety  
  - Level 2: Details on all Components  
  - Level 3: Overhaul of Compressor |
| **Follow-Up Training** | Available |
Alternative Fuels and Vehicles Training Resource Guide for Transit Districts

**Training Courses: Alternative Fuel Retailers/Fuel Station Packagers**

**Pinnacle CNG**
Drew Diggins, Operations Manager  
**Telephone:** (915) 686-5989  
**Fax:** (915) 686-1557  
**Website:** www.pinnaclecng.com

- **Products Offered:** Pinnacle provides CNG and hydrogen fueling station packages, components, consulting, and maintenance services (for Pinnacle equipment).
- **Training Available:** The company offers training for customers who purchase equipment or services from Pinnacle.
- **Length of Training:** Varies based on customer needs.
- **Target Audience:** Vehicle technicians, fueling station maintenance technicians, vehicle fuelers, drivers, fleet department managers, facility or plant engineers
- **Training Location:** Customer site
- **Training Catalog:** No
- **Training Topics:** Fueling, safety, overview of vehicle systems, O-ring of receptacles, storage, cylinder inspection
- **Follow-Up Training:** Every six months or as requested

**Trillium**
Jennifer Detapia, Customer Service Manager  
**Telephone:** (801) 531-1166  
**Website:** www.trilliumusa.com

- **Products Offered:** Trillium provides CNG fueling station packages, compressors, consulting, and maintenance (for Trillium customers only).
- **Training Available:** The company offers training for customers who purchase equipment or services from Trillium. There is no separate fee for training.
- **Length of Training:** Varies based on customer needs.
- **Target Audience:** Fueling station maintenance technicians, vehicle fuelers, department managers
- **Training Location:** Customer site
- **Training Catalog:** No
- **Training Topics:** Safety, fuel management/dispensing equipment operation, reset of controller
- **Follow-Up Training:** Available
**TRAINING COURSES:**

**Educational Institutions**

**College of the Desert**
James Heffel, Director of Energy Technology Training Center
TELEPHONE: (760) 773-2596 www.desert.cc.ca.us

**PRODUCTS OFFERED:** College of the Desert offers vocational classes, including alternative fuel courses.
**TRAINING AVAILABLE:** Anyone who registers
**LENGTH OF TRAINING:** Varies
**TARGET AUDIENCE:** Vehicle technicians
**TRAINING LOCATION:** College campus
**TRAINING CATALOG:** Yes
**TRAINING TOPICS:** Six-course certificate program in alternative fuels including engines, electrical systems, fuel injection, two CNG courses, and a five-week internship; electric hybrids. Training is updated regularly.

**Gateway Community College**
Tammy Eaton, M.A.; Assistant Professor, Automotive Program Coordinator
TELEPHONE: (203) 285-2397 teaton@gwcc.commnet.edu www.gwcc.commnet.edu

**PRODUCTS OFFERED:** Gateway Community College offers vocational classes, including alternative fuel courses.
**TRAINING AVAILABLE:** Anyone who registers
**LENGTH OF TRAINING:** Varies
**TARGET AUDIENCE:** Vehicle technicians, department managers
**TRAINING LOCATION:** College campus; customer site
**TRAINING CATALOG:** Yes
**TRAINING TOPICS:** Engine and vehicle conversions; maintenance and tank inspection; and certification for Cummins, Detroit Diesel, and John Deere engines.

**National Alternative Fuels Training Consortium (NAFTC)**
Al Ebron, Executive Director
TELEPHONE: (304) 293-7882 al.ebron@mail.wvu.edu http://naftp.nrce.wvu.edu

**PRODUCTS OFFERED:** The Training Consortium offers a curriculum for alternative fuels training programs.
**TRAINING AVAILABLE:** Consortium of 20 community colleges
**LENGTH OF TRAINING:** Varies
**TARGET AUDIENCE:** Instructors/trainers from community colleges who are members of the consortium
**TRAINING LOCATION:** West Virginia University
**TRAINING CATALOG:** Yes
**TRAINING TOPICS:** Alternative fuel vehicles, components, and systems
**FOLLOW-UP TRAINING:** Available
**Natural Gas Vehicle Institute (NGVI)**
Leo Thomason, Executive Director
TEL: (702) 254-4180, #22
leo@ngvi.com  www.ngvi.com

**PRODUCTS OFFERED:** Training and education programs targeted specifically to users of and service providers to the natural gas vehicle industry.

**TRAINING AVAILABLE:** Anyone who registers

**LENGTH OF TRAINING:** Varies

**TARGET AUDIENCE:** Vehicle technicians, fuelers, drivers, management, engineers, fueling station maintenance technicians

**TRAINING LOCATION:** At headquarters in Las Vegas or customer site

**TRAINING CATALOG:** Yes

**TRAINING TOPICS:** Natural gas fueling station sizing, design, operation, and maintenance; vehicle and fueling safety practices; driver training for natural gas vehicles.

**FOLLOW-UP TRAINING:** Available

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**Rio Hondo College**
Mike Rojas
TEL: (562) 692-0921, #3712
mrojas@rh.cc.ca.us  www.rh.cc.ca.us

**PRODUCTS OFFERED:** Rio Hondo offers vocational classes, including alternative fuel courses.

**TRAINING AVAILABLE:** Anyone who registers

**LENGTH OF TRAINING:** Varies

**TARGET AUDIENCE:** Vehicle technicians, automotive technology students

**TRAINING LOCATION:** Campus

**TRAINING CATALOG:** Yes

**TRAINING TOPICS:** Introduction to alternative fuels, advanced alternative fuels (focused on conversions). Training is updated after each course.

**FOLLOW-UP TRAINING:** Available
**TRAINING COURSES:**

**Government Agencies**

**U.S. Department of Transportation (DOT) FTA Office of Safety and Security**

Harry Saporta, Director, Office of Safety and Security  
**TELEPHONE:** (202) 366-2896  
**harry.saporta@fta.dot.gov**  
**www.fta.dot.gov**

**PRODUCTS OFFERED:**

Safety evaluations of alternative fuels, facilities, and equipment for CNG, LNG, LPG, hydrogen, fuel cells, ethanol, electricity, biodiesel, and dual gas-diesel. The fuels specified in the training are determined by the alternative fuel system of the host transit agency.

Instructors Course in Alternative Fuels Safety is a train-the-trainer workshop in alternative fuels safety.

Emergency Response and Access to Alternative Fueled Vehicles Seminar teaches safety awareness and procedural guidelines to gain emergency access to AFVs.

**TRAINING AVAILABLE:**

Transit agencies as requested

**LENGTH OF TRAINING:**

One to three days, depending on course selected.

**TARGET AUDIENCE:**

Facilities engineers or managers, safety managers, trainers, operations managers, maintenance supervisors, emergency response personnel

**TRAINING LOCATION:**

Varies

**TRAINING CATALOG:**

Yes, via Web site

**TRAINING TOPICS:**

Introduction to CNG, facilities operating procedures/regulations, site conditions, safety training, building protection, CNG cylinders, safety improvement recommendations, safety awareness, facility and equipment safety issues, personal protective equipment, emergency response plan.

**FOLLOW-UP TRAINING:**

As requested

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**For More Information**

This handbook was produced by the Clean Cities Technical Assistance Project, which consists of groups of experts and firms chosen by DOE and the National Renewable Energy Laboratory. Commonly known as Tiger Teams, these experts offer specialized, hands-on experience in specific AFV niche market applications, including CNG, LPG, ethanol, and electricity in light-, medium-, and heavy-duty vehicles.

Tiger Teams help Clean Cities organizations solve problems they are unable to solve on their own. Projects that qualify for Tiger Teams assistance include vehicle and infrastructure operations and the evaluation of potential applications.

For more information, visit the Tiger Teams Web site at www.ccities.doe.gov/tiger.html, or contact the Clean Cities Hotline at 800-CCITIES, ccities@nrel.gov.