

Clean Cities FOA-0000951 Final Report

1. **DOE Award Number:** DE-EE0007026
2. **Project Title:** Filling Critical Gaps Through Innovative Cradle-to-Grave Training
3. **Period Covered by the Report:** Final Report
4. **Contact Information:**

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5. **Project Start Date:** June 15, 2015
6. **Project Completion Date:** October 14, 2017
7. **Overall Project Goals and Objectives, Location, and Project Partners:**
The overall project goal is to reduce US dependence on foreign oil, increase the viability and deployment of renewable energy technologies, and increase energy efficiency.

The objective of this project was to enhance and provide training on alternative fuels and alternative fuel vehicles to reach mechanics/technicians, first responders, public safety officials, and other critical service providers across the multi-state region of Arkansas, Louisiana, Oklahoma, and Texas.

Project partners included Arkansas Clean Cities (Arkansas Energy Office), Lone Star Clean Fuels Alliance, Louisiana Clean Fuels, National Alternative Fuels Training Consortium (NAFTC), Southeast Louisiana Clean Fuel Partnership (Regional Planning Commission), and Tulsa Area Clean Cities (Indian Nations Council of Governments).

8. **Milestones Met and Deliverables:**
NCTCOG met all project milestones, including agreement execution, training course delivery, and reporting requirements. Additionally, all deliverables identified in the proposal (executed agreements, training classes, surveys, etc.) were completed and provided to DOE in a timely manner or as part of this report. More information can be found in Table 1.
9. **Comparison of Goals/Objectives to Actual Accomplishments:**
Table 1 outlines the major milestones and go/no-go decision points, along with the scheduled and actual completion date.

The biggest schedule change occurred at the beginning of the project. When NCTCOG realized that subrecipient agreements were taking longer to execute than anticipated, staff asked for a 4-month project extension to ensure subrecipients had enough time to complete their tasks.

In all, the project team held 30 training classes paid for with federal funds – 20 with NAFTC and 10 with FS Circle. Partner agencies held additional training classes and used those as local/in-kind match.

Best Practices

Timeline

- List the possible steps needed for the training to take place, whether it be signatures needed from executive personnel, securing locations, or booking the training event.
- Estimate the amount of time it would take for each step and back into the training date.
- Allow one to three months for marketing the training event. Ex. More marketing time may be needed for safety officials and first responders due to their schedules.

Partners

- Work with nonprofits, state and local governments, and municipalities to help market and promote the trainings.
- Research organizations to connect or create partnerships with to help promote the goals of the trainings. Ex. For first responder trainings, work with local fire, emergency medical technicians, and police associations to market the trainings to their networks.
- Gauge interest in finding a partner that would be interested in sponsoring and paying for lunch or other event costs during the planning process of the training.

Audience

- Know your audience; know their general work schedules. Ex. Marketing to a public safety official and a technician would require different timelines so that supervisors could approve the training.
- Work with local organizations to gauge interest in your target audience. Ex. Working with the local fire association may help understand if there is a need or interest in alternative fuel training.
- Provide alternative fuel statistics and data to potential attendees during the marketing period to show the need for the training and encourage registration.

Obstacles & Lessons Learned

When planning and executing the trainings, unexpected obstacles occasionally occurred. The obstacles and lessons learned have been categorized and detailed as Training Location, Audience, and Continuing Education Credits.

Training Location

- For the RPC's Southeast Louisiana Clean Fuel Partnership, problems arose when facilities realized they could not accommodate the training due to the weeklong duration it took occupying the facility and staff time.
 - Reach out to multiple facilities to gauge interest and partnership.
 - Provide needed documentation and training information in advance, so facilities know what to expect.

Audience

- For the DFWCC and LSCFA, training attendance started low due to the priority of the training topic and the work schedules of the attendees. For first responders, most have irregular schedules; ex. 48 hours on, 48 hours off.
 - Provide options for the first responder to attend a shortened course.
- For the DFWCC area, first responders were hesitant on taking the course because it was not a priority when compared to safety and hazmat trainings.
 - Offer the course at no cost and provide data and statistics of alternative fuel growth. As more residents in the region own and/or operate AFVs, it's important for first responders to learn the characteristics of each fuel type to safely approach these vehicles that will help improve public safety.
- Due to the nature of the RPC region, the main transportation issue focus was related to The Port of New Orleans. This originally created low interest from The Port of New Orleans officials.
 - Cast a wider net of potential attendees by securing a training location not located on or near the vicinity of the port.

Continuing Education Credits

- Specifically in the AEO region, CE credits could not be obtained by the Arkansas Health Department. For a first responder CE in Arkansas, the course did not obtain enough medical information to be issued CE credits.
 - Research and obtain CE credits during the planning process if possible, and market the CE credits offered.

The greatest success of this project was increasing the number of trained first responders, mechanics/technicians, public safety officials, and other critical service providers. This was largely due to the extensive outreach and partner network used to promote the trainings. As a result, more people are now trained on alternative fuels than ever before. A secondary success was forming partnerships with training organizations, technical/community colleges, and other project partners. This will make hosting future training classes easier, since critical partnerships are already in place. It also underscores the fact that more organizations are seeing alternative fuel training as important to their community. Finally, the development of the Future Action Plan can be used by other regions to help implement training programs in their area. The Future Action Plan is attached to the end of this report.

10. Contribution to a Sustainable Alternative Fuels Market:

As a result of this grant, over 30 alternative fuel training classes were held across four states, with over 350 attendees. This will help increase alternative fuel adoption as drivers and fleet managers feel more confident that technicians and local officials can address issues related to these fuels and vehicles.

The Train-the-Trainer courses benefit the region because post-grant, these trainers that have attended the courses could go on to perform their own trainings and host their own classes.

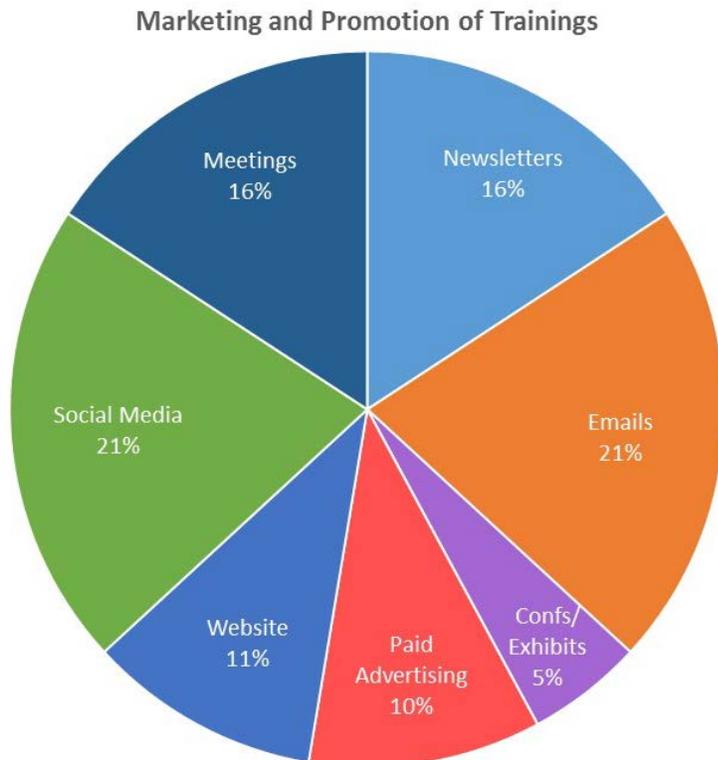
Trainings could then be hosted in more rural areas for more niche participation as well as be hosted more frequently to reach more potential attendees.

During the grant period, interest to become NAFTC training centers were expressed by several community and technical colleges, but due to funding and staffing issues from the colleges, these plans fell through. After multiple attempts through letters, emails, phone calls, and meetings, colleges were unable to work through the financial obstacles despite DFWCC offering subsidies. DFWCC is continuing to investigate becoming an NAFTC Government Member in order to manage and host the trainings at a reduced cost.

NCTCOG developed Future Action Plan as part of this project. This plan can be utilized by other local governments, Clean Cities Coalitions, training centers/colleges, and others to implement alternative fuel vehicle training in their areas.

11. Marketing, Outreach, and Trainings Held:

Over 30 alternative fuel training classes were held across four states, with over 350 attendees. A variety of efforts, shown in the graph below, were used to market the trainings, including: meetings, newsletters, email correspondence, social media, website updates, paid advertising, and exhibits at conferences.



No specific media was garnered for this project, however, some industry publications, listed below, featured articles about the training classes.

- First Responder AFV Safety Training, Texas Propane magazine, June 2016
- New Orleans Metro Automotive Technicians Receive AFV Training, Fuels Fix Ezine, Spring 2017

NCTCOG-published articles are listed under item 12, Key Publications.

12. Products or Technology Transfer Activities:

Key publications include:

- DFW Clean Cities Newsflash Article, February 2016
- DFW Clean Cities Newsflash Article, March 2016
- DFW Clean Cities Newsflash Article, May 2016
- DFW Clean Cities Newsflash Article, June 2016
- First Responder AFV Safety Training, Texas Propane magazine, June 2016
- DFW Clean Cities Newsflash Article, July 2016
- DFW Clean Cities Newsflash Article, August 2016
- New Orleans Metro Automotive Technicians Receive AFV Training, Fuels Fix Ezine, Spring 2017
- DFW Clean Cities Newsflash Article, April 2017
- DFW Clean Cities Newsflash Article, May 2017
- DFW Clean Cities Newsflash Article, July 2017
- Various “Local Motion” articles

DFW Clean Cities Newsflash can be found online at

<https://www.dfwcleancities.org/publications>.

Local Motion can be found online at

<http://www.nctcog.org/trans/outreach/localmotion/index.asp>.

Presentations were made throughout the course of the project, including:

- Various Surface Transportation Metropolitan Mobility meetings (can be found online at <http://nctcog.org/trans/committees/sttc/previous.asp>)
- Fire Instructors Association of North Texas (FIANT) presentation, monthly meeting, March 2, 2016
- Baton Rouge Mutual Aid System Workshop, April 2016
- Louisiana Arson and Fire Prevention Conference, June 2016
- Clean Vehicle initiatives in North Central Texas, Fleet Con, September 14, 2016
- FIANT presentation, monthly meeting, January 4, 2017

Marketing materials are attached to the end of this report.

No new training materials were created as part of this project. NAFTC and FS Circle developed the training materials used for this project through other DOE grant funded projects.

13. Project Management Lessons Learned:

Overall, there were no major project management issues. The biggest issue was executing subrecipient agreements. NCTCOG is working to shore up the time it takes to draft, review, and execute these agreements. However, the problems was mitigated by asking for a no-cost time extension upfront, which provided subrecipients with the full two years to implement and complete their portion of the project.

All other project management aspects went smoothly. NCTCOG held a kick-off call with subrecipients to get everyone on the same page at the beginning of the project, outline deliverables, and set expectations. A collective email box that several NCTCOG staff had access to provided subrecipients and other project partners with one email address that would allow them to reach multiple NCTCOG staff members. This allowed for a more timely response to issues, concerns, and questions. Additionally, NCTCOG set up meeting reminders for administrative tasks like reporting. Reminders were created so that no deadlines were missed.

To aid the subrecipients with reporting, NCTCOG created templates, both for invoicing and reporting. This took some of the burden off the subrecipients, as they did not have to guess what kind of information to submit. It also provided NCTCOG with uniform information from each subrecipient.

Each of these tools will continue to be utilized for future grant projects.

14. **Total Award Amount:** \$750,000
 - a. Federal Share: \$600,000
 - b. Cost Share: \$150,000

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Filling Critical Gaps through Innovative Cradle-to-Grave Training										
Task Number	Task Title or Subtask Title (if Applicable)	Milestone Type (Milestone or Go/No-Go Decision Point)	Milestone Number* (Go/No-Go Decision Point Number)	Milestone Description (Go/No-Go Decision Criteria)	Milestone Verification Process (What, How, Who, Where)	Anticipated Date (Months from Start of the Project)	Anticipated Quarter (Quarters from Start of the Project)	Actual Completed Date (Months from Start of the Project)	Actual Completed Quarter (Quarters from Start of the Project)	Status Date (Months from Start of the Project)
1	Hold Kick-Off Meeting with DOE	Milestone	1.1.1	Kick-Off Meeting Completed	Kick-off meeting completed by NCTCOG/DFWCC and DOE	M1	Q1	M3	Q2	Complete
1	Execute Agreement	Milestone	1.2.1	Agreement Executed	Agreements between NCTCOG/DFWCC Executed	M1-M2	Q1	M1	Q1	Complete
1	Report to DOE	Milestone	1.3.1	Reports Sent to DOE	Reports completed and submitted	M4-M24	Q2-Q8	M2	Q2	Award was executed on June 15, 2015, so that started month 1 for our grant program.
1	Execute Subgrantee Agreements	Go/No Go Decision Point	DP1	Execution of Subgrantee Agreements	Agreements with subrecipients signed	M1-M2	Q1	M8	Q3	Complete; all contracts fully executed in January 2016.
1	Develop Future Action Plan	Milestone	1.4.1	Publish Future Action Plan	Future action plan published by NCTCOG/DFWCC	M20-24	Q8	M24	Q8	Complete
2	Procure and Host Fire Marshal and Code Official Training	Milestone	2.1.1	Vendor Selection	INCOG/TACC executes contract with vendor	M3-M23	Q1-Q8	M10	Q3	Complete
2	Procure and Host Fire Marshal and Code Official Training	Milestone	2.1.2	Host Trainings	Trainings are held in PPA	M5-M20	Q1-Q8	M11	Q3-Q8	Complete
2	Procure and Host Fire Marshal and Code Official Training	Milestone	2.1.3	Complete Follow-Up	NCTCOG/DFWCC completes surveys and feedback.	M20-M21	Q1-Q8	M20	Q3-Q8	Complete
3	End-User AFV Training	Milestone	3.1.1	Host end-user training classes on EVs, Natural Gas vehicles, Propane Vehicles, CNG Cylinder Inspections	Trainings are held in PPA	M6-M17	Q1-Q6	M6-M17	Q1-Q6	Complete
3	End-User AFV Training	Milestone	3.1.2	Complete Follow-Up	NCTCOG/DFWCC completes surveys and feedback.	M6-M17	Q1-Q6	M6-M17	Q1-Q6	Complete
3	Instructor Training in Vocational/Community College	Milestone	3.2.1	Host instructor trainings for vocational/community college automotive instructors	Trainings are held at vocational/community colleges in PPA	M3-M22	Q1-Q8	M3-M24	Q8	Complete

3	Instructor Training in Vocational/Community College	Milestone	3.2.2	Host end-user training classes at selected vocational/ community colleges as part of regular course offerings	Trainings are held at vocational/community colleges in PPA	M3-M22	Q5-Q8	M3-M22	Q8	Complete
3	Instructor Training in Vocational/Community College	Milestone	3.2.3	Complete Follow-Up	NCTCOG/DFWCC completes surveys and feedback.	M3-M20	Q1-Q7	M2-M22	Q8	Complete

3	Instructor Training in Vocational/Community College	Go/No Go Decision Point	DP2	If viable vocational/community colleges are not found in the initial request, the search area may be expanded.	M8	Q3	M8	Q3	Q3	Complete
4	Provide Training to Existing FIM Instructors and Other First Responders, Public Safety Officials, and Critical Service Providers	Milestone	4.1.1	Identify existing FIM classes and instructors	M3-M4	Q1-Q2	M5	Q2	Q2	Complete
4	Provide Training to Existing FIM Instructors and Other First Responders, Public Safety Officials, and Critical Service Providers	Milestone	4.1.2	Host instructor training for FIM instructors and other interested parties	M5-M8	Q2-Q3	M7-M8	Q2-Q3	Q2-Q3	Complete; staff obtained state approval/certification on NAFTA trainings
4	Provide Training to Existing FIM Instructors and Other First Responders, Public Safety Officials, and Critical Service Providers	Milestone	4.1.3	Complete Follow-Up	M5-M8	Q2-Q3	M7-M8	Q2-Q3	Q2-Q3	Complete
4	Provide Training to Existing FIM Instructors and Other First Responders, Public Safety Officials, and Critical Service Providers	Go/No Go Decision Point	DP3	If existing FIM instructors are not interested in the training, additional instructors from state or local fire, police or other organizations may be approached.	M8	Q3	M8	Q3	Q3	Complete
4	Deliver First Responder Safety Training	Milestone	4.2.1	Host first responder safety training	M8-M23	Q3-Q8	M8-M24	Q3-Q8	Q3-Q8	Complete
4	Deliver First Responder Safety Training	Milestone	4.2.2	Complete Follow-up	M8-M23	Q3-Q8	M22	Q3-Q8	Q7	Complete
4	Deliver First Responder Safety Training	Go/No Go Decision Point	DP4	If first responder safety training cannot be scheduled with existing FIM classes, the first responder training may be offered through other partner organizations/events/trainings.	M11	Q4	M10	Q4	Q3	Complete; first responder trainings have been paired with existing FIM classes or have been offered through other partner organizations

Filling Critical Gaps through Innovative Cradle-to-Grave Training Grant
Future Action Plan
October 13, 2017

The North Central Texas Council of Governments (NCTCOG) and the Dallas-Fort Worth Clean Cities (DFWCC) Coalition has been working on the Filling Critical Gaps (FCG) grant since 2015. This project has enhanced and provided training on alternative fuels and alternative fuel vehicles (AFVs) to reach mechanics/technicians, first responders, public safety officials, and other critical service providers across a multi-state region. The objective of this Future Action Plan (FAP) is to explore and encourage the potential impending trainings in the South Central Clean Cities Region.

The grant provided 20 training classes scheduled with the National Alternative Fuels Training Consortium (NAFTC) focused on mechanics and first responder trainings and 10 training classes with FS Circle focused on public safety officials for a total of 30 classes. Additional classes were held as part of in-kind match to the overall grant. These classes were held in four states in the South Central Clean Cities Region: Arkansas, Louisiana, Oklahoma, and Texas. More than 350 first responders, alternative fuel technicians/mechanics, public safety officials, and other critical service providers registered and attended these classes.

Over the course of the grant period, DFWCC and its subrecipients: Arkansas Energy Office (AEO), Long Star Clean Fuels Alliance (LSCFA), Louisiana Clean Fuels (LCF), NAFTC, Regional Planning Organization (RPC), and Indian Nations Council of Governments (INCOG) have been able to learn the best practices when hosting a training and the lessons learned from the successes and shortcomings of each event. A survey was created by the DFWCC for the subrecipients to provide their general feedback about the grant. The FAP has been created based on the results of this survey, as well as subrecipient comments, and have been documented in the following categories: Best Practices, Obstacles & Lessons Learned, and Sustainability of Projects.

Best Practices

Timeline

- List the possible steps needed for the training to take place, whether it be signatures needed from executive personnel, securing locations, or booking the training event.
- Estimate the amount of time it would take for each step and back into the training date.
- Allow a one to three months for marketing the training event. Ex. More marketing time may be needed for safety officials and first responders due to their schedules.

Partners

- Work with nonprofits, state and local governments, and municipalities to help market and promote the trainings.
- Research organizations to connect with to create partnerships to help promote the goals of the trainings. Ex. For first responder trainings, work with local fire, emergency medical technicians, and police associations to market the trainings to their networks.

- Gage interest in finding a partner that would be interested in sponsoring and paying for lunch or other event costs during the planning process of the training.

Audience

- Know your audience; know their general work schedules. Ex. Marketing to a public safety official and a technician would require different timelines for the training to be approved by their supervisors.
- Work with local organizations to gage interest in your target audience. Ex. Working with the local fire association may help understand if there is a need or interest in alternative fuel training.
- Provide alternative fuel statistics and data to potential attendees during the marketing period to show the need for the training and encourage registration.

Exhibit A

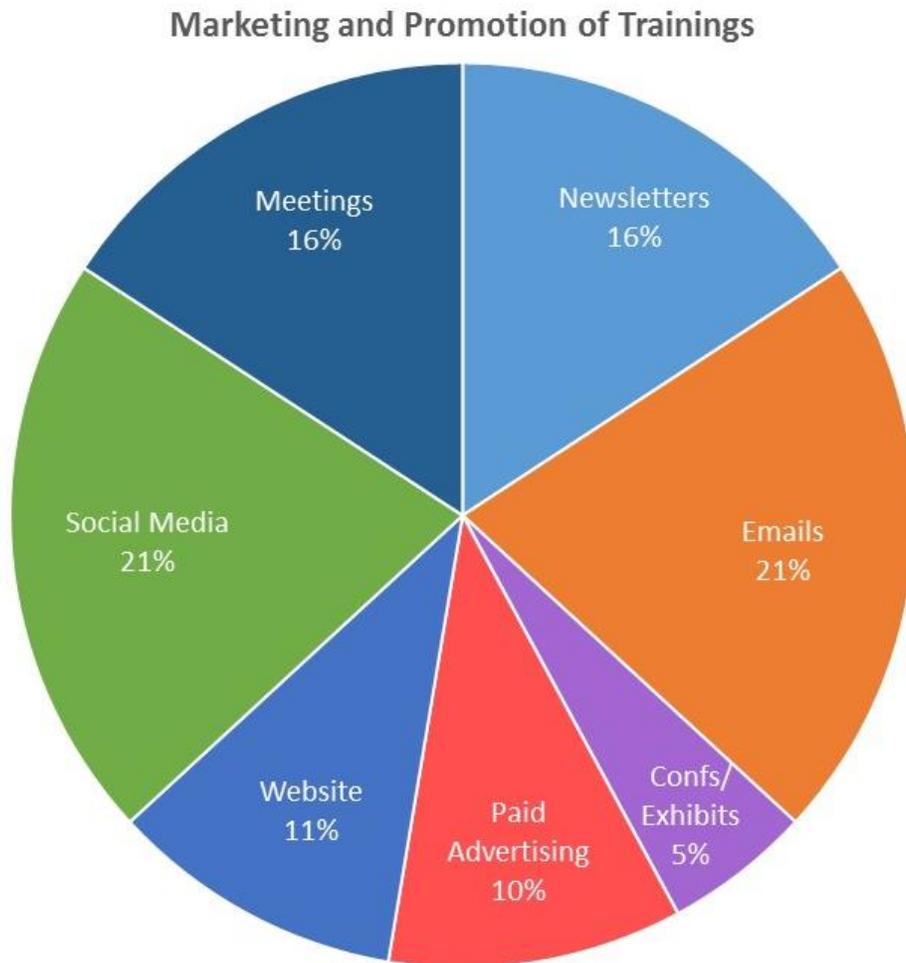


Exhibit A shows marketing efforts from DFWCC and its subrecipients during the grand period. A variety of efforts were used to market the trainings, including: meetings, newsletters, email correspondence, social media, website updates, paid advertising, and exhibits at conferences.

Obstacles & Lessons Learned

When planning and executing the trainings, unexpected obstacles occasionally occurred. The obstacles and lessons learned have been categorized and detailed as: Training Location, Audience, and Continuing Education Credits.

Training Location

- For the RPC's Southeast Louisiana Clean Fuel Partnership, problems arose when facilities realized they couldn't accommodate the training due to the week-long duration it took occupying the facility and staff time.
 - Reach out to multiple facilities to gauge interest and partnership.
 - Provide needed documentation and training information in advance so facilities know what to expect.

Audience

- For the DFWCC and LSCFA, training attendance started off low due to the priority of the training topic and the work schedules of the attendees. For first responders, most have irregular schedules; ex. 48 hours on, 48 hours off.
 - Provide options for the first responder to attend a shortened course.
- For the DFWCC area, first responders were hesitant on taking the course because it was not a priority when compared to safety and hazmat trainings.
 - Offer the course at no-cost and provide data and statistics of alternative fuel growth. As more residents in the region own and/or operate AFVs, it's important for first responders to learn the characteristics of each fuel type to safely approach these vehicles that will help improve public safety.
- Due to the nature of the RPC region, the main transportation issue focus was related to The Port of New Orleans. This originally created low interest from The Port of New Orleans officials.
 - Cast a wider net of potential attendees by securing a training location not located on or near the vicinity of the port.

Continuing Education Credits

- Specifically in the AEO region, CE credits could not be obtained by the Arkansas Health Department. For a first responder CE in Arkansas, the course did not obtain enough medical information to be issued CE credits.
 - Research and obtain CE credits during the planning process if possible, and market the CE credits offered.

Exhibit B

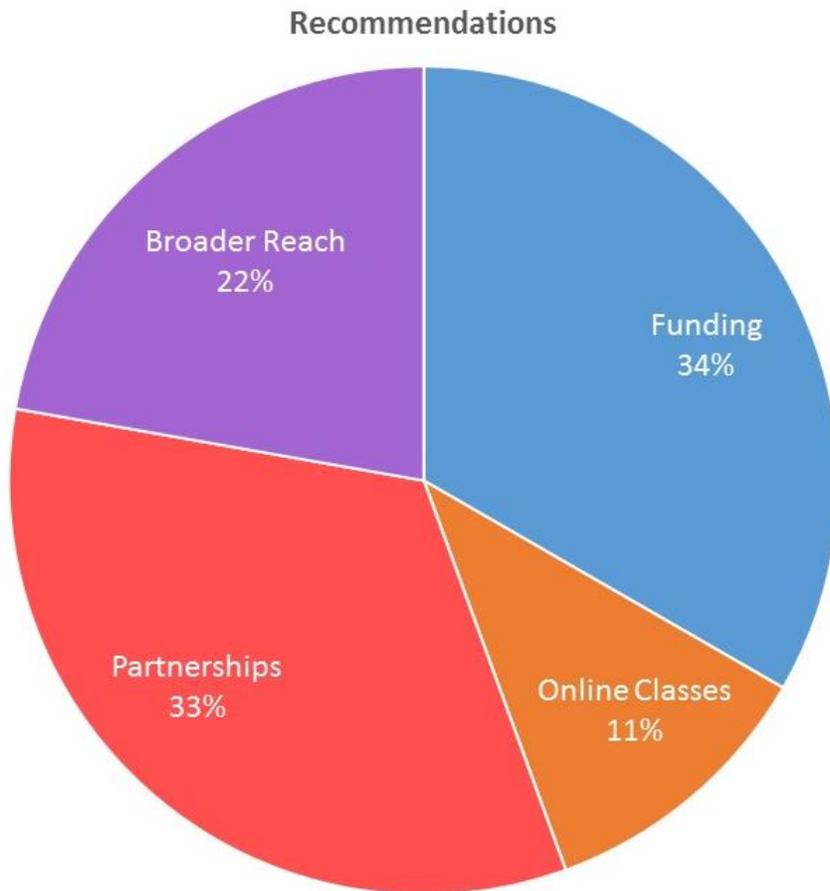


Exhibit B shows recommendations from DFWCC and its subrecipients. A focus on a broader reach for the target audience, more funding, developing partnerships, and online classes were the main recommendations on potential improvements for future trainings.

Sustainability of Projects

The Train-the-Trainer courses benefit the region because post-grant, these trainers that have attended the courses could go on to perform their own trainings and host their own classes. Trainings could then be hosted in more rural areas for more niche participation as well as be hosted more frequently to reach more potential attendees.

During the grant period, interest to become NAFTC training centers were expressed by several community and technical colleges, but due to funding and staffing issues from the colleges, these plans fell through. After multiple attempts through letters, emails, phone calls, and meetings, colleges were unable to work through the financial obstacles despite DFWCC offering subsidies. DFWCC is continuing to investigate becoming an NAFTC Government Member in order to manage and host the trainings at a reduced cost.

DFWCC and its subrecipients plan on working with existing train-the-trainer attendees to plan future trainings using the existing NAFTC curriculum. Funding for future trainings post-grant have been

discussed. DFWCC will work with a participant that attended the previous train-the-trainer class to host a training using the NAFTC curriculum. Depending on the training, funding of the trainer could be pro-bono, or funded through the trainer’s organization and provided as in-kind to the DFWCC. DFWCC, as well as the subrecipients, have expressed interest in finding sponsors to fund future trainings.

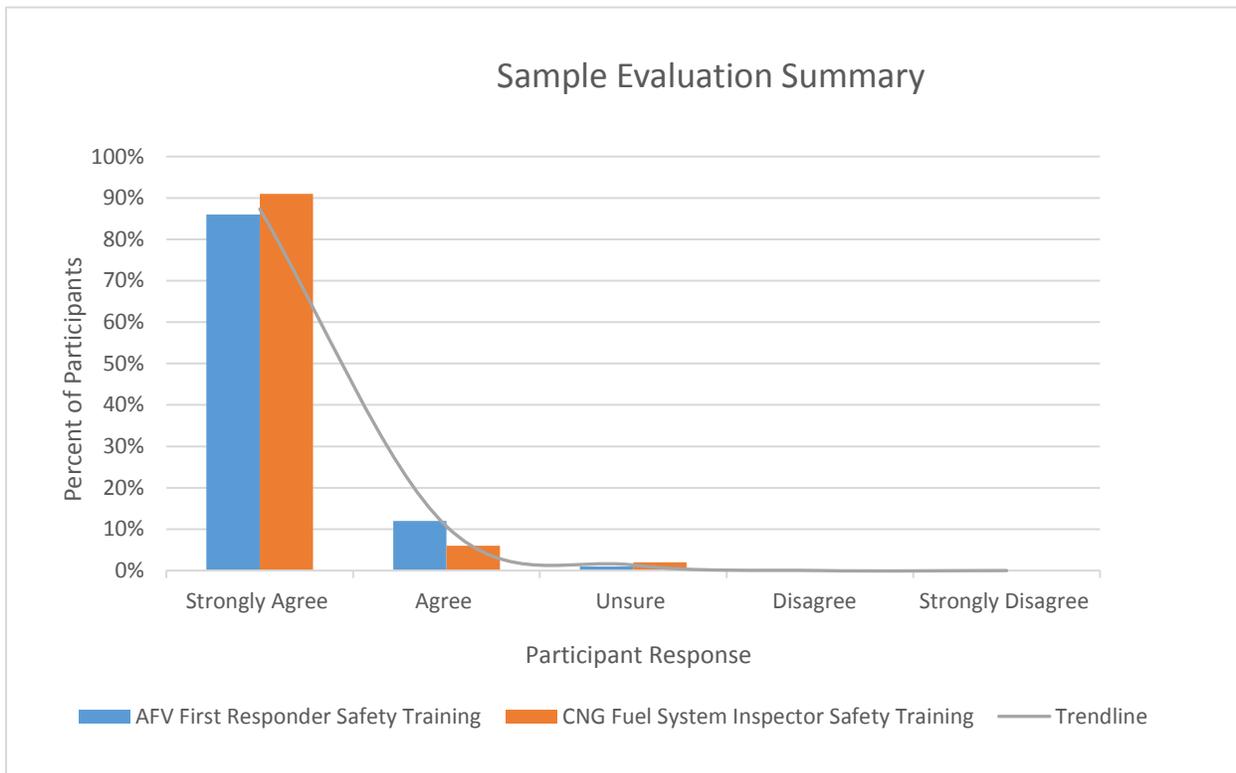
Conclusion

An evaluation sample of the hosted trainings provided an 86% “Strongly Agree” and 12% “Agree” positive response for the AFVs First Responder Safety trainings. A 91% “Strongly Agree” and 6% “Agree” positive response showed for the CNG Fuel System Inspector Safety trainings. Less than 2% in each training category rated “Unsure” and an average of 0% responded “Disagree” and “Strongly Disagree” when questioned about positive benefits of the training. The sample grant evaluation summaries are listed below as Exhibit C and D.

Exhibit C

Evaluation Response Summary	Strongly Agree	Agree	Unsure	Disagree	Strongly Disagree	Number of Courses
AFV First Responder Safety Training	86%	12%	1%	0%	0%	5
Part I: The Instructor	93%	7%	0%	0%	0%	
Part II: Course Materials	82%	15%	3%	1%	0%	
Part III: General Teaching and Learning	74%	23%	2%	1%	0%	
Part IV: Course Facilities	98%	2%	0%	0%	0%	
Part V: The reason I took this course was for...						
Work	23					
Academic	-					
Personal	3					
Learn More	3					
Other:	-					
CNG Fuel System Inspector Safety Training	91%	6%	2%	0%	0%	2
Part I: The Instructor	95%	5%	0%	0%	0%	
Part II: Course Materials	82%	12%	6%	0%	0%	
Part III: General Teaching and Learning	92%	4%	4%	0%	0%	
Part IV: Course Facilities	96%	4%	0%	0%	0%	
Part V: The reason I took this course was for...						
Work	15					
Academic	4					
Personal	2					
Learn More	3					
Other:	-					

Exhibit D



The training classes hosted by FS Circle did not provide evaluations after the completion of each course. However, due to the continued positive attendance of each FS Circle training, it could be concluded that these trainings were beneficial and welcomed in the region.

To conclude the grant, DFWCC collected responses from its subrecipients regarding the overall training process during the grant period. The survey responses helped guide the development of the FAP.

Q1 Based on your experiences, what are some best practices for hosting, planning, and executing trainings?

Answered: 4 Skipped: 0

#	RESPONSES	DATE
1	Start early - everything takes longer than you think Have a backup location for hosting the trainings Book with NAFTC early - I didn't realize we could start booking with NAFTC and by the time we tried to get dates, many were already booked	7/20/2017 4:22 PM
2	Get the right partners to promote the events. Its worth spending a LOT of time making the right connections.	7/20/2017 11:27 AM
3	-Advertise far and wide -In-person approach and phone calls useful -Held at a facility with automotive bays, really helpful for the viewing portion of the class -created handouts from DOE station locator of local area AFV stations - really opened attendees eyes as to number that were out there.	7/19/2017 12:49 PM
4	Established conferences/trainings for the target audience	7/19/2017 12:23 PM

Q2 Were there any obstacles or lessons learned along the way? Any potential solutions for these problems?

Answered: 4 Skipped: 0

#	RESPONSES	DATE
1	Getting mechanics to the trainings - it was had to get them to take several consecutive days off of work; having online trainings, a combo online/ in-person training, or breaking up the trainings might help We also had issues with finding a garage that could allow us to have space for 3-5 consecutive days - having a more definitive schedule ahead of time would have helped us with finding space if we could give them a timeframe for each day rather than blocking out the whole day Make sure all the folks at the training location are on board and have an understanding of their commitment- our original facility fell through when the mechanic folks found out how long the trainings would be (they couldn't have their facility tied up for that long).	7/20/2017 4:22 PM
2	The biggest issue is getting on the right mailing lists and getting the right contacts with the 1st responders. Go to conferences where THEY go so you can make the right contacts. Exhibit at state municipal association meetings, police jury conferences, etc.	7/20/2017 11:27 AM
3	-Recruiting much harder than imagined. Found that non-traditional types of "trainers" were more likely to sign up the second time around. Texas Department of Transportation, Austin Resource Recovery, etc. These departments are likely to be "first responders" to their AFV fleets. They realize this training won't make them a first responder, but it would make them more knowledgeable. They are not formally "trainers", but are in effect. Our outreach was not originally targeted toward these types of departments, but we did some personal outreach, in fact we sent the flyer and person e-mails to both of these departments. Food expensive, not always easy to get a sponsor for food. Vehicle recruiting was at times difficult to get vehicles we wanted to be available for the day of the training. For our upcoming training we have sent invitations to area city councils inviting them to view the vehicles and encouraging them to pass the information along to their first responders, to-date, we've not received much response. We were also hoping to highlight the vehicles on display and give the vehicles owners more incentive to get the vehicles there.	7/19/2017 12:49 PM
4	Getting CEU's. According to the Arkansas Health Department, CEU's could not be issued due to not enough medical information.	7/19/2017 12:23 PM

Q3 If your coalition hosted different types of trainings, which was your favorite and why? Which was your least favorite and why?

Answered: 4 Skipped: 0

#	RESPONSES	DATE
1	All the trainings seemed to go well and targeted different fleets	7/20/2017 4:22 PM
2	I love the fire fighter first responder classes. Those groups are the most enthusiastic and I personally liked the class. However, the students at the Station Safety Class with FS Circle really loved that class.	7/20/2017 11:27 AM
3	I wish we had hosted more and different trainings, the feed back and experiences would have been valuable.	7/19/2017 12:49 PM
4	Least favorite: doing a stand-alone training. Couldn't generate a lot of interest. Favorite: partnering with existing conference/training and ensuring an audience	7/19/2017 12:23 PM

Q4 What are some recommendations for sustaining the trainings in the future?

Answered: 4 Skipped: 0

#	RESPONSES	DATE
1	Reduced cost for the trainings; offering online/ inperson combo trainings at a lower cost where the in person could be done at various mechanic shops (instead of having them all come to one place)	7/20/2017 4:22 PM
2	I'm planning to fund a few classes on my own. I tried to identify someone to take the classes and become a trainer for us - we had a few potential people - but nothing materialized.	7/20/2017 11:27 AM
3	Working with ACC to offer these trainings as they are part of the NAFTC consortium	7/19/2017 12:49 PM
4	Get local representatives certified to do the trainings so they can be used for trainings in rural areas and also for entities that cannot let potential attendees attend during certain time frames	7/19/2017 12:23 PM

Q5 Please provide a list of marketing efforts used to promote the trainings.

Answered: 4 Skipped: 0

#	RESPONSES	DATE
1	Posting in our newsletter Sent out email invitation Announced at multiple meetings Sent personal email invitation and mentioned at fleet meetings	7/20/2017 4:22 PM
2	Email, going to conferences & exhibiting, speaking at their meetings (Arson Prevention conference), etc. We did some Facebook paid ads that targeted our audience as well. We also had custom graphics made to use in the promotion of the class.	7/20/2017 11:27 AM
3	Face book ads targeting profile of first responder, law enforcement, EMS, firefighter, and likes for same types of associations - Coalition website, Coalition mailing list, Coalition mailing to list of amost 75 area fire departments, lawenforcement and counties, some personal calls. Handouts at Lone Star Clean Fuels Alliance "fleet day a the track" event and VW Settlement workshop.	7/19/2017 12:49 PM
4	Social media Contact with agencies who cover education for First Responders Municipal League	7/19/2017 12:23 PM

Q6 Please provide a list of organizations contacted to market the trainings.

Answered: 4 Skipped: 0

#	RESPONSES	DATE
1	Municipal Fleet Managers & elected Officials Fleets from FleetSeek Clean Fuel Partnership Stakeholders Chambers of Commerce NAFA Louisiana Propane Association	7/20/2017 4:22 PM
2	LA Fire and Arson Prevention Assoc. Louisiana State Police's Joint Emergency Services Training Center LSU FETI (Fire and Emergency Training Institute) LA State Fire Marshal Louisiana Municipal Association Regional Safety Coordinators at Planning Commissions LA Local Technical Assistant Program at the LA Transportation Research Center	7/20/2017 11:27 AM
3	TX Natural Gas Foundation June and July newsletters and website, AIM High mailing, CapCog mailing, Houston Natural Gas Foundation mailing, CLEAN AIR Force mailing	7/19/2017 12:49 PM
4	Municipal League Various state-wide state and local agencies	7/19/2017 12:23 PM

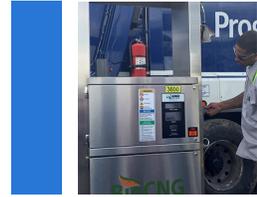
Q7 Additional information/comments regarding the FCG trainings.

Answered: 3 Skipped: 1

#	RESPONSES	DATE
1	The trainings were great! Thanks for organizing!	7/20/2017 4:22 PM
2	Thank you! It has been a rewarding experience!	7/20/2017 11:27 AM
3	Filled an important need, found we reached rural and smaller FDs and people that didn't know they needed to know about AFVs.	7/19/2017 12:49 PM



FREE FIRST RESPONDER TRAINING



Did you know that there are over 3,500 alternative fuel vehicles operating in Louisiana? Learn proper procedures on how to safely deal with alternative fuel vehicles at the scene of an accident.



March 22, 2017 | Alternative Fuel Vehicle Safety Class for Firefighters

March 23, 2017 | Alternative Fuel Vehicle Safety Class for EMS & Law Enforcement

First responders need to be trained on the differences between these vehicles and their conventional counterparts and on the proper procedures for safely addressing incidents involving natural gas, propane autogas, hydrogen, electric drive, and biofuel powered vehicles. This course is designed to educate first responders on the properties and procedures to follow when dealing with alternative fuel vehicles.

Each class was designed with the specific needs of each type of responder in mind. Firefighters should attend the March 22nd class while EMS and Law Enforcement should attend the March 23rd class. Both classes will be held at the JESTC Staff Development Center and are free to attend. Registration is required.

Taught by a certified NAFTC first responder instructor, these courses will enable you to:

- List the key properties, characteristics, and functions of alternative fuels
- Explain the operation of alternative fuel vehicles
- Recognize alternative fuel vehicle components

- Identify the risks and hazards common to alternative fuel storage, including high-voltage batteries and high pressure gaseous fuel cylinders
- Explain the major components of alternative fuel vehicle fueling and charging systems
- Describe alternative fuel vehicle fueling and charging station safety systems
- Identify the risks involved with the transport and handling of alternative fuels
- List personal protective equipment necessary for firefighters when responding to an alternative fuel vehicle incident
- List the steps required to secure an alternative fuel vehicle
- List the steps for rescuing occupants from a damaged alternative fuel vehicle
- Demonstrate proper fire response to an alternative fuel fire
- Demonstrate proper response to a gaseous fuel leak



Location: **JESTC**
 Date: **March 22 & 23, 2017**
 Times: **8am-4:30pm (both classes)**
 Instructor: **Jeff Julian**

Joint Emergency Services Training Center (JESTC)
 1400 W. Irene Road, Zachary, LA 70791 | www.jestc.org

Register online at www.LouisianaCleanFuels.org/meetinginfo.php

LCF: info@louisianacleanfuels.org or **225-342-7972**
 Page 22 of 42



Alternative Fuel Vehicle Safety Training
Free Classes for Firefighters, EMS & Law Enforcement

JESTC
March 22 & 23, 2017
8AM - 4:30PM

Louisiana **cleanfuels**

REGISTER NOW

CONTACT: Courtney Young, Southeast Louisiana Clean Fuel Partnership
cyoung@norpc.org / (504) 483-8519
www.cleanfuelpartnership.org

Local Automotive Technicians Receive Alternative Fuel Vehicle Operation Training from NAFTC

In coordination with the [National Alternative Fuels Training Consortium \(NAFTC\)](#), the City of Kenner, and the [Dallas Fort Worth Clean Cities](#), the [Southeast Louisiana Clean Fuel Partnership \(SLCFP\)](#) hosted the “Alternative Fuel Mechanic Training Workshop Series” which aimed to increase the number of trained alternative fuel vehicle mechanics and expand clean transportation options in the region as well as address critical training needs throughout the entire state.

Local vehicle technicians learned key information about servicing and maintaining electric, propane, and natural gas vehicles during courses taught by NAFTC top expert, Mark Schmidt. The workshops took place at the City of Kenner’s Maintenance Facility and the Kenner Parks & Recreation Department Meeting Room from January to February 2017.

NAFTC Director Bill Davis commented, “It is so important for today’s automotive technicians and fleet managers to be knowledgeable about alternative fuel vehicles. The SLCFP has really taken a proactive position of arranging such a broad series of trainings for their local technicians. The NAFTC is happy to share our training and expertise to students as part of this project.”

Participating technicians learned how AFVs operate differently from conventionally-fueled vehicles by gaining hands-on experience with many different types of vehicles. These include an all-electric Mitsubishi i-MiEV provided by Solar Alternatives, a Toyota Prius provided by Enterprise Rent-A-Car, a hybrid tow-truck provided by AAA’s Automobile Club of Missouri, a propane-fueled truck provided by ICOM North America, a CNG Honda Civic by Entergy, a dedicated CNG Honda and dual-fuel F-250 by Atmos Energy, and a CNG shuttle by Park ‘N Fly.

“The interaction was excellent between all of the participants – newer technicians and seasoned veterans that have seen it all, but willing to learn the alt fuel vehicles,” Schmidt said. “The support from the Clean Fuel Partnership, City of Kenner Fleet Management and Parks & Recreation was excellent. What a great experience!”

“A good crew and a great learning experience. Thanks again for the opportunity,” said EV Training participant, Paul Wabnig of Quality Alfa.

Additional information and photographs from the workshops can be found on the SLCFP’s event page: <http://cleanfuelpartnership.weebly.com/events.html>.

Mechanic Training Workshop Series Supported by:  **PROPANE**
education & research
COUNCIL

Mechanic Training Workshop Series Sponsored by:  **Alliance AutoGas**
POWERED BY PROPANE

Photos



EV Training

Local automotive technicians with Instructor, Mark Schmidt (2nd from right) and Solar Alternative's i-MiEV (left) work with training aids. The NAFTC provides hands-on learning using vehicles and component training aids such as component cutaways (right).



Propane Training

Inspecting ICOM North America's propane F150 (left) Mechanics from Airport Shuttle and AAA with NAFTC Instructor, Mark Schmidt and ICOM Autogas Specialist, David Griffin (right)



Natural Gas Training

Standing under Park n' Fly's CNG shuttle in Kenner's Maintenance Facility (left) Reactwell, LLC. Advanced Technology Solutions CNG dispenser (right)

###

About the Southeast Louisiana Clean Fuel Partnership (SLCFP): Housed at the [Regional Planning Commission](#) (RPC) for Jefferson, Orleans, Plaquemines, St. Bernard, St. Tammany, Tangipahoa, St. John the Baptist and St. Charles Parishes, the [Southeast Louisiana Clean Fuel Partnership](#) is the U.S. Department of Energy-designated [Clean Cities Coalition](#) for the New Orleans metropolitan area supported by the [Louisiana Department of Natural Resources](#). The Clean Fuel Partnership facilitates efforts to incorporate alternative fuels and advanced transportation technologies in fleet operations. The U.S. Department of Energy [Clean Cities](#) initiative advances the nation's economic, environmental and energy security by supporting local actions to cut petroleum use in transportation through a national network of nearly 100 local Clean Cities Coalitions brings together stakeholders in the public and private sectors.

About the National Alternative Fuels Training Consortium (NAFTC): The [National Alternative Fuels Training Consortium \(NAFTC\)](#) was founded in 1992 and manages education and outreach programs and activities, develops curricula, and conducts training on subject matter related to alternative fuel and advanced technology vehicles. The NAFTC works with universities, community colleges and high schools around the country to develop training programs for dissemination at the local level. The organization consists of approximately 50 National and Associate Training Centers that utilize its curricula and training materials. Numerous other members from small business, government, and industry also support the NAFTC's mission. More information about the NAFTC can be found at www.NAFTC.wvu.edu.

Filling Critical Gaps through Innovative Cradle-to-Grave Training Alt Fuel Mechanic Training Workshop Series



Many fleets in our region would like to convert to alternative fuels but lack trained mechanics to maintain the vehicles. In addition, few mechanic shops outside of dealerships have personnel trained for electric, propane or natural gas vehicles. In order to address this barrier to the expansion of clean transportation options in our region, the Clean Fuel Partnership, in coordination with the Dallas Fort Worth Clean Cities and the [National Alternative Fuels Training Consortium](#) (NAFTC), will be offering a series of **FREE** Alternative Fuel Mechanic Training Workshops including:

- [Electric Drive Vehicle Automotive Technician Training \(January 23-27, 2017\)](#): This 5-day course helps participants understand electric drive vehicles and how they operate differently from conventionally fueled vehicles. Participants will learn how to safely maintain hybrid electric and electric drive vehicles. The information covered in the course has helped participants pass the ASE L3 course. [Register here.](#)
- [Propane Autogas Vehicle Technician Training \(February 7-9, 2017\)](#): This 3-day course focuses on how engine performance and propane are utilized for efficiency, how converted vehicles utilize the original equipment manufacturer's (OEM) module to communicate with the conversion electronic module, and the properties and safe use of propane. [Register here.](#)
- [Light-Duty Natural Gas Vehicles Training \(February 21-23, 2017\)](#): This 3-day course helps participants learn how the electronics for CNG conversion systems communicate with the OEM PCM, pre- and post-installation setup, and gain an understanding of both dedicated and bi-fuel system CNG components and all safety issues related to the fuel systems. [Register here.](#)



The trainings will be held at the City of Kenner's Maintenance Facility and the Kenner Parks & Recreation Department Meeting Room, 1905 24th Street, Kenner, Louisiana, 70062. The trainings will start at 8:30a and conclude by 5:00p each day.

The trainings are free but [registration](#) is required. Each training is limited to 12 participants so reserve your spot early! Priority will be given to Clean Fuel Partnership stakeholder fleets; other spots will be filled on a first-come, first-served basis.

For additional information or to register, please visit the [SLCFP's event page](#) or contact slcfp@norpc.org.

Electric Drive Vehicle Technician Training



Date: January 23-27, 2017

Location: City of Kenner's Maintenance Facility and the Kenner Parks & Recreation Department Meeting Room
1905 24th Street, Kenner 70062 ([Map](#))

[Register](#) now!

In partnership with the National Alternative Fuels Training Consortium (NAFTC), City of Kenner, and Dallas Fort Worth Clean Cities' **Filling Critical Gaps through Innovative Cradle-to-Grave Training Program**



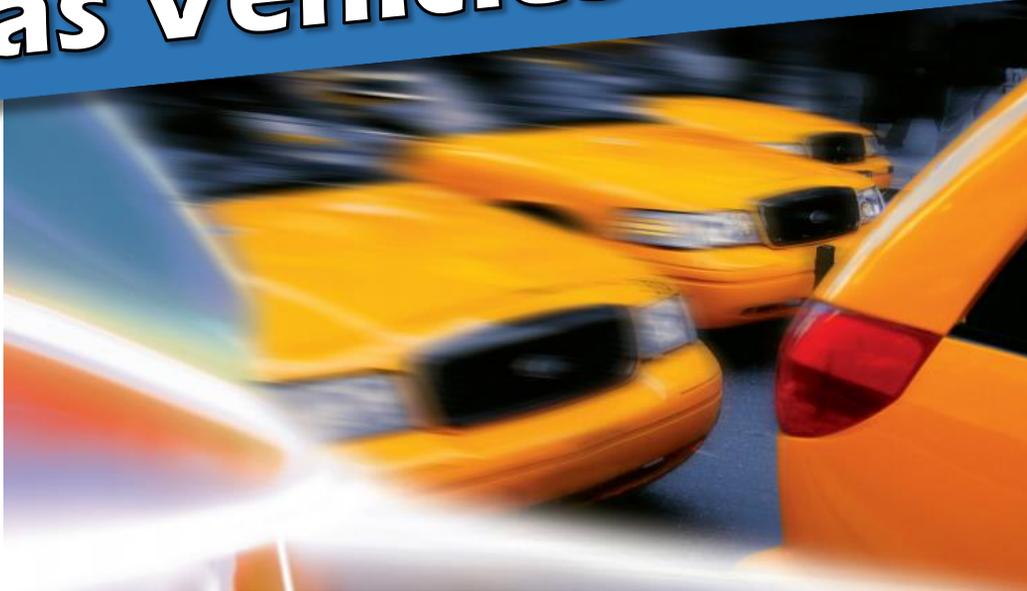
SOUTHEAST LOUISIANA
CLEAN FUEL PARTNERSHIP



Dallas-Fort Worth
CLEAN CITIES



Light-Duty Natural Gas Vehicles Training



Date: February 21-23, 2017

Location: City of Kenner’s Maintenance Facility and the Kenner Parks & Recreation Department Meeting Room
1905 24th Street, Kenner 70062 ([Map](#))

Register now!

In partnership with the National Alternative Fuels Training Consortium (NAFTC), City of Kenner, and Dallas Fort Worth Clean Cities’ **Filling Critical Gaps through Innovative Cradle-to-Grave Training Program**



**Dallas-Fort Worth
CLEAN CITIES**



Propane Autogas Vehicle Technician Training



Date: February 7-9, 2017

Location: City of Kenner's Maintenance Facility and the Kenner Parks & Recreation Department Meeting Room
1905 24th Street, Kenner 70062 ([Map](#))

Register now!

In partnership with the National Alternative Fuels Training Consortium (NAFTC), City of Kenner, and Dallas Fort Worth Clean Cities' **Filling Critical Gaps through Innovative Cradle-to-Grave Training Program**



New Orleans Metro Automotive Technicians Receive AFV Training

Mechanics in the New Orleans Metropolitan area received a unique opportunity to participate in a free Alternative Fuel Mechanic Training Workshop Series hosted by the Southeast Louisiana Clean Fuel Partnership and presented by the National Alternative Fuels Training Consortium (NAFTC). The series was in coordination with the Dallas-Fort Worth Clean Cities' Filling Critical Gaps through Innovative Cradle-to-Grave Training Program funded by a U.S. Department of Energy grant to fill the growing need for technicians trained on electric drive, natural gas and propane vehicles.

"One of the first questions we get from fleets when we talk to them about alternative fuels is 'Where can we have the vehicle serviced?' These trainings will help fill that gap and promote the use of cleaner transportation in the New Orleans region," commented Southeast Louisiana Clean Fuel Partnership Director Rebecca Otte.

Mark Schmidt, NAFTC's Trainer for the series commented on the success of the three workshops: "The interaction was excellent between all of the participants – newer technicians with seasoned veterans that have seen it all but were willing to learn the alt fuel vehicles. The support from the Clean Cities folks helped make this a superb training."

"A good crew and a great learning experience. Thanks again for the opportunity," said Electric Drive Training participant, Paul Wabnig of Quality Alfa.

With the help of SLCFP stakeholders, participating technicians gained hands-on experience with a variety of vehicle types. These include Solar Alternatives' Mitsubishi i-MiEV, Enterprise Rent-A-Car's Toyota Prius, AAA's hybrid tow-truck, ICOM North America's propane F-350, Atmos Energy's CNG Honda and dual-fuel F-250, Entergy's CNG Honda Civic, and Park 'N Fly's CNG shuttle. Special thanks to our workshop sponsors, the Propane Education Research Council (PERC) and Alliance Autogas who helped provide lunch for the series.

Rebecca Otte | Southeast Louisiana Clean Fuel Partnership | slcfp@norpc.org | 504-483-8513

Full-sized photos are attached in email – Please see captions below



EV Training

Left: Local automotive technicians with Instructor, Mark Schmidt (2nd from right) and Solar Alternative’s i-MiEV.

Right: The NAFTC provides hands-on learning using vehicles and component training aids such as component cutaways.



Propane Training

Left: Inspecting ICOM North America’s propane F150 (Photo credit: Mark Schmidt)

Right: Mechanics from Airport Shuttle and AAA with NAFTC Instructor, Mark Schmidt and ICOM Autogas Specialist, David Griffin



Natural Gas Training

Left: Standing under Park n’ Fly’s CNG shuttle in Kenner’s Maintenance Facility (Photo Credit: Mark Schmidt)

Right: Reactwell, LLC. Advanced Technology Solutions CNG dispenser (Photo Credit: Mark Schmidt)



Dallas-Fort Worth
CLEAN CITIES

NAFTC

Alternative Fuel Vehicle Safety Training



Tuesday, March 29

Firefighters

8 AM – 5 PM

Free Training

Lunch is provided

Wednesday, March 30

EMS &

Law Enforcement Personnel

8 AM – 3 PM

Free Training

Lunch is provided

As part of a grant from the Department of Energy, the Dallas-Fort Worth Clean Cities and the National Alternative Fuels Training Consortium (NAFTC) are hosting safety training courses that are designed to educate firefighters, EMS, and law enforcement personnel on properties and procedures when dealing with alternative fuel vehicles.

Certified NAFTC instructors will teach:

- properties and functions of alternative fuels
- how to identify the risks and hazards common to alternative fuel storage, including high-voltage batteries, high pressure gaseous fuel cylinders, and gaseous leak
- how to recognize alternative fuel vehicle components, vehicle operation, fueling, and charging
- how to identify risks involved with the transport and handling of alternative fuels
- the personal protective equipment necessary for firefighters, EMS, and law enforcement personnel when responding to an alternative fuel vehicle incident
- the steps required to secure an alternative fuel vehicle, rescuing occupants from a damaged alternative fuel vehicle, and proper fire response to an alternative fuel fire

Located at North Central Texas Council of Governments

616 Six Flags Drive Arlington, TX 76011

RSVP AT: <http://bit.ly/1ovrbTO>

NAFTC First Responder Alternative Fuel Vehicle Safety Training

As part of a grant from the Department of Energy, the Dallas-Fort Worth Clean Cities and the National Alternative Fuels Training Consortium (NAFTC) are hosting safety training courses that are designed to educate firefighters, EMS, and law enforcement personnel on properties and procedures when dealing with alternative fuel vehicles.

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- how to recognize alternative fuel vehicle components, vehicle operation, fueling, and charging
- how to identify risks involved with the transport and handling of alternative fuels
- the personal protective equipment necessary for firefighters, EMS, and law enforcement personnel when responding to an alternative fuel vehicle incident
- the steps required to secure an alternative fuel vehicle, rescuing occupants from a damaged alternative fuel vehicle, and proper fire response to an alternative fuel fire

Wednesday, June 8

Firefighters

8 am - 5 pm

Thursday, June 9

EMS & Law Enforcement

8 am - 3 pm

Cost: \$15

Lunch will be provided.

Register: <http://bit.ly/1ovrbTO>

616 Six Flags Dr.

Arlington, TX 76011



Dallas-Fort Worth
CLEAN CITIES



Compressed Natural Gas Fuel System Inspector Training

Today, there are more than **2.5 million natural gas vehicles in use**. They use compressed natural gas (CNG) cylinders that require periodic inspection and create a demand for certified professionals to physically inspect these systems and regulate CNG safety.

As part of a grant from the Department of Energy, the Dallas-Fort Worth Clean Cities and the National Alternative Fuel Training Consortium (NAFTC) are hosting a CNG vehicle and infrastructure training course.

Taught by **professional NAFTC instructors**, this two-day course will prepare participants to:

- safely install CNG components to NFPA 52 code
- recognize unsafe, damaged, and deteriorated vehicles and infrastructure
- understand regulations needed to install CNG components on a conversion
- develop a working knowledge of the types of issues that can occur for pressure relief devices, different types of cylinders, and fuel system components
- learn material in preparation for the **CSA Fuel System Inspector Exam**

Who: CNG technicians, system installers, safety and fleet supervisors, and risk management staff

Where: Universal Technical Institute
5151 Regent Boulevard
Irving, TX 75063

When: Tuesday, August 2 -
Wednesday, August 3
8 am - 5 pm

Cost: \$15 per trainee with lunch provided

Register at: bit.ly/2a2Cald



Dallas-Fort Worth
CLEAN CITIES



Compressed Natural Gas

Fueling Facility Safety and Inspection Training

This course is designed and taught by Chief Jeremy Moore of FS Circle Solutions. As a professional firefighter, and alternative fuel advocate, he gained accreditations as a Fire Inspector and Fire Service Instructor from the International Fire Service Accreditation Congress. He is committed to sustainable energy, particularly in compressed natural gas (CNG).

Chief Moore is a leader in safety and codes for CNG stations across the nation, working with industry leaders to help educate public officials about natural gas fuels. This four-hour course will prepare participants to:

- explain relevant codes and how they apply to CNG fueling stations
- understand the differences between IFC, NFPA 52, and NFPA 30A
- enforce codes and permitting in a consistent manner that will improve public safety
- know the State and international firecode
- have a general understanding of CNG cylinder and vehicle systems

Who: CNG professionals, code officials, and fire inspectors

Where: University of Texas at Arlington
Mavericks Activities Center -
Upstairs Lounge
500 W. Nedderman Drive
Arlington, TX 76019

When: Tuesday, September 6
1 - 5 pm
or
Wednesday, September 7
8 am - noon

Cost: \$15 per trainee

Register at: csrtc.nctcog.org



Dallas-Fort Worth
CLEAN CITIES



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SOLUTIONS



ISGI
Institute for Sustainability
and Global Impact

Compressed Natural Gas

Fuel System Inspector Training

Today, there are more than **2.5 million natural gas vehicles in use**. They use compressed natural gas (CNG) cylinders that require periodic inspection and create a demand for certified professionals to physically inspect these systems and regulate CNG safety.

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- recognize unsafe, damaged, and deteriorated vehicles and infrastructure
- understand regulations needed to install CNG components on a conversion
- develop a working knowledge of the types of issues that can occur for pressure relief devices, different types of cylinders, and fuel system components
- learn material in preparation for the **CSA Fuel System Inspector Exam**

Who: CNG technicians, system installers, safety and fleet supervisors, and risk management staff

Where: Fire Training Research Center
1530 W 27th
DFW Airport, TX 75261

When: Tuesday, October 4 and
Wednesday, October 5
8 am - 5 pm

Cost: \$15 per trainee with lunch provided

Register at: csrtc.nctcog.org



Dallas-Fort Worth
CLEAN CITIES



Compressed Natural Gas Station Safety and Inspection Training

This course is designed and taught by Chief Jeremy Moore of FS Circle Solutions. As a professional firefighter, and alternative fuel advocate, he gained accreditations as a Fire Inspector and Fire Service Instructor from the International Fire Service Accreditation Congress. He is committed to sustainable energy, particularly in compressed natural gas (CNG).

Chief Moore is a leader in safety and codes for CNG stations across the nation, working with industry leaders to help educate public officials about natural gas fuels. This four-hour course will prepare participants to:

- explain relevant codes and how they apply to CNG fueling stations
- understand the differences between IFC, NFPA 52, and NFPA 30A
- enforce codes and permitting in a consistent manner that will improve public safety
- know the State and international fire code
- have a general understanding of CNG cylinder and vehicle systems

Who: CNG professionals, code officials, and fire inspectors

Where: Fire Training Research Center
1530 W. 27th St.
DFW Airport (Grapevine), TX
75261

When: Thursday, February 9
8 am - noon

Cost: \$15 per trainee

Register:

csrtc.nctcog.org/p-6577-ccng.aspx



Dallas-Fort Worth
CLEAN CITIES



Compressed Natural Gas

Station Safety and Inspection Training

This course is designed and taught by Chief Jeremy Moore of FS Circle Solutions. As a professional firefighter, and alternative fuel advocate, he gained accreditations as a Fire Inspector and Fire Service Instructor from the International Fire Service Accreditation Congress. He is committed to sustainable energy, particularly in compressed natural gas (CNG).

Chief Moore is a leader in safety and codes for CNG stations across the nation, working with industry leaders to help educate public officials about natural gas fuels. This four-hour course will prepare participants to:

- explain relevant codes and how they apply to CNG fueling stations
- understand the differences among IFC, NFPA 52, and NFPA 30A
- enforce codes and permitting in a consistent manner that will improve public safety
- know the State and international fire code
- have a general understanding of CNG cylinder and vehicle systems

Who: CNG professionals, code officials, and fire inspectors

Where: Fire Training Research Center
1530 W. 27th St.
DFW Airport (Grapevine), TX
75261

When: Thursday, June 1
8 am - noon

Cost: \$15 per trainee

Register:

csrtc.nctcog.org/p-6590-ccng.aspx



Dallas-Fort Worth
CLEAN CITIES



FS | CIRCLE
SOLUTIONS

NAFTC First Responder Alternative Fuel Vehicle Safety Training

As part of a grant from the Department of Energy, the Dallas-Fort Worth Clean Cities and the National Alternative Fuels Training Consortium (NAFTC) are hosting safety training courses that are designed to educate firefighters, EMS, and law enforcement personnel on properties and procedures when dealing with alternative fuel vehicles.

Certified NAFTC instructors will teach:

- properties and functions of alternative fuels
- how to identify the risks and hazards common to alternative fuel storage, including high-voltage batteries, high pressure gaseous fuel cylinders, and gaseous leak
- how to recognize alternative fuel vehicle components, vehicle operation, fueling, and charging
- how to identify risks involved with the transport and handling of alternative fuels
- the personal protective equipment necessary for firefighters, EMS, and law enforcement personnel when responding to an alternative fuel vehicle incident
- the steps required to secure an alternative fuel vehicle, rescuing occupants from a damaged alternative fuel vehicle, and proper fire response to an alternative fuel fire

Wednesday, August 2

Firefighters

8:30 am - 5:00 pm

Thursday, August 3

EMS & Law Enforcement

8:30 am - 3:00 pm

Register: www.northtexasdi.org

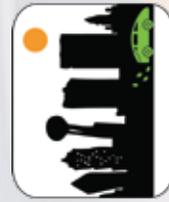
Cost: \$15

Lunch will be provided.

Addison Fire Department

4798 Airport Pkwy.

Addison, TX 75001



Dallas-Fort Worth
CLEAN CITIES





IF IT'S NOT IN YOUR BACKYARD YET, IT'S COMING SOON!



On behalf of the Railroad Commission of Texas and
Dallas-Fort Worth Clean Cities,
please join us for a CNG/ LNG Code Workshop on:
Friday, May 20, 2016
10 am to 2 pm

North Central Texas Council of Governments
616 Six Flags Drive, Arlington, TX 76011

Lunch provided by TD Industries.

Please RSVP by Wednesday, May 18, 2016:
susan.shifflett@rrc.texas.gov or 713.628.9915



DOE-NCTCOG-0007026

CNG Fuel System Training

Momentum Fuel Technologies
1051 Republic Drive
Roanoke, TX 76262

September 26, 2017

8:30 am - 4:30 pm

Lunch Provided

Training Topics

- **CNG Safety Precautions**
- **Fleet Management**
- **Fuel System Components**
- **Controlling Pressure**
- **Fuel System Maintenance Schedule**
- **Troubleshooting**
- **Inspecting and Replacing Components**
- **Solving Electrical Problems**

A facility tour is also available for interested attendees.

Questions?

David O'Brien, Momentum Training Manager

obriend@momentumfueltech.com

817-767-6006

RSVP:

Dallas-Fort Worth Clean Cities

cleancities@nctcog.org



Dallas-Fort Worth
CLEAN CITIES