



AB118
Training Proposal for:
Atlas Disposal Industries, LLC

Small Business ≤ \$50,000

ET15-0803

Approval Date: April 1, 2015

ETP Regional Office: Sacramento

Analyst: W. Sabah

CONTRACTOR

- Type of Industry: Green Technology Services
Priority Industry: Yes No
- Number of Full-Time Employees
California: 90
Worldwide: 90
Number to be trained: 9
Owner Yes No
- Out-of-State Competition: Other: N/A
- Special Employment Training (SET): Yes No
- High Unemployment Area (HUA): Yes No
- Turnover Rate: 10%
- Repeat Contractor: Yes No

FUNDING

- Requested Amount: \$9,360
- In-Kind Contribution: \$9,000

TRAINING PLAN TABLE

Job No.	Job Description	Type of Training	Estimated No. of Trainees	Range of Hours		Average Cost per Trainee	Post-Retention Wage
				Class / Lab	CBT		
1	Retrainee Priority Rate	Commercial Skills	9	8-60	0	\$1,040	\$22.50
				Weighted Avg: 40			

- Reimbursement Rate: \$26 SB Priority
- County(ies): Sacramento
- Occupations to be Trained: Maintenance Technician, Fleet Manager
- Union Representation: Yes
 No
- Health Benefits: N/A

SUBCONTRACTORS

- Development Services: Sierra Consulting Services in Cameron Park assisted with development for a flat fee of \$900.
- Administrative Services: Sierra Consulting Services will also provide administration services for an amount not to exceed 13% of payment earned.
- Training Vendors: Natural Gas Vehicle Institute in Las Vegas, NV will provide Commercial Skills.

OVERVIEW

Founded in 1998, Atlas Disposal Industries, LLC (Atlas Disposal) (<http://atlasdisposal.com/>) is an independently owned waste management and recycling removal companies in the Sacramento region. The Company has a national profile as well, operating its own biofuel station and digester to recycle food waste into Renewable Natural Gas (Clean Natural Gas made from renewable sources) from food waste. Their customer base consists of restaurants, constructions sites, office buildings, and retail stores.

Training will assist Atlas Disposal to cleanly and efficiently power their vehicles and responsibly meet the energy and environmental needs to provide customers with green and more economical waste management and recycling options.

AB 118

The AB 118 Program is administered by ETP in partnership with the California Energy Commission (CEC). The overall goal of the AB 118 Program is to support a transition from petroleum-based transportation to alternative and renewable fuels and clean, low carbon vehicle

technologies. Training is focused on job skills for a skilled workforce for the production, maintenance, and distribution/sale of vehicles powered by new alternative fuels, as well as the design, construction, and operation of the accompanying refueling infrastructure for such vehicles.

Alternative Fuel is defined as any fuel other than the traditional selections, gasoline and diesel from petroleum sources, used to produce energy or power. Examples of alternative fuels are: bio-diesel, ethanol, methanol, electricity, propane, compressed or liquid natural gas, and hydrogen.

The Need for AB 118 Training

Atlas Disposal's waste management and recycling removal services require the Company to stay up-to-date with the ever-changing industry demands for green technology. Customers also demand green vendors as the recycling and refuse industry is moving toward a cleaner, greener approach. In addition, Atlas Disposal wants to stay competitive in a market where many customers are looking for vendors with alternative fuel vehicles order to be awarded certain state contracts.

Atlas Disposal is currently in the process of converting its fleet from diesel to CNG vehicles. Out of 56 vehicles, the Company now has 22 CNG trucks and anticipates buying 3-4 more CNG vehicles by 2016. CNG engines and technology is constantly evolving and requires specialized maintenance training in comparison to diesel engines. The Company seeks to provide proficient and cost-effective service/maintenance to efficiently power their vehicles and responsibly meet the energy and environmental needs in the future. Due to the steep learning curve of CNG vehicle maintenance, Atlas Disposal will require extensive training on CNG engines.

Training will provide the Company with information to determine as to how much of the CNG engine breakdowns are due to technology and how much is due to the lack of expertise within the maintenance team. Training will increase CNG knowledge to dramatically reduce maintenance load and improve efficiency. In addition, the Company will be able to work with CNG fuel tank manufacturers to provide recommendations to improve future CNG engines.

Training Plan

Atlas Disposal will train in AB118 Commercial Skills spanning both maintenance and service skills. Class/Lab training will be provided by the only Automotive Service Excellence training vendor in the natural gas vehicle industry that meets the Company's training needs. Although the vendor is from out of state, all training will be delivered in California.

Commercial Skills - The curriculum encompasses a program of training in maintenance-services for CNG vehicles and fueling systems. Maintenance Technicians and Fleet Manager will receive training to increase CNG engine knowledge and improve maintenance efficiency to provide clean-green services. In addition, training will equip trainees with the skills to successfully pass the CNG Fuel System Inspector examination to receive certification.

RECOMMENDATION

Staff recommends approval of this proposal.

Exhibit B: Menu Curriculum**Class/Lab Hours**

8-60

Trainees may receive any of the following:

COMMERCIAL SKILLS

- ❖ CNG Fuel System Inspector Certification:
 - Properties and Characteristics of Natural Gas
 - CNG Cylinders 1-4, Construction Methods, Certification Requirements, Current and Past Manufacturers
 - Cylinder Failure
 - Codes and Regulations for CNG Cylinders and Other Fuel System Components
 - CNG High-Pressure Components, Purpose and Common Failure Modes
 - Identify and Assess NGV Cylinder and Fuel System Installation
 - Information Interpretation from a CNG Cylinder Label
 - Defueling Options for CNG Vehicles
 - Final Disposition Process for CNG Cylinders
 - Steps and Methods to Safely Perform a CNG Fuel System Inspection in Conformance with Established Standards

- ❖ CNG Fueling Station Operation and Maintenance Training:
 - Physical Properties of Natural Gas
 - Health Hazards of Natural Gas
 - Causes and Effects of Gas Quality in a CNG Fueling Station
 - Components of the CNG Fueling Station Operation & Maintenance
 - Critical Tools and Spare Parts to Maintain a CNG Fueling Station
 - Common Specifications Required in a Third-Party CNG Fueling Station Maintenance Contract
 - Necessities for an Emergency Fueling Plan
 - CNG Fueling Station Trouble Shooting Techniques
 - Usage of CNG Maintenance Logs
 - Major CNG Fueling Station Components and Maintenance
 - Federal Safety Regulations for CNG Fueling Stations
 - General Safety Issues Associated with CNG Fueling Stations and Risk Mitigation
 - Safety Procedures and Precautions to Maintain CNG Fueling Stations
 - Conducting CNG Fueling Facility Safety Evaluations
 - Procedures for Defueling CNG Powered Vehicles
 - Waste Tracking Requirements for CNG Fueling Stations and Hazardous Waste
 - Elements of a HAZOP Plan in Relation to CNG Fueling Stations

- ❖ Heavy Duty Natural Gas Vehicle Maintenance and Diagnostic Training:
 - Identify and Compare the Properties, Concerns and Safety Procedures of CNG and LNG Fuels
 - Identify Installation Requirements and Operation of All Low- and High-Pressure Components in an NGV
 - Construct High-Pressure Lines and Fittings Following Safe and Proper Procedures

- Identify Maintenance Components/Intervals/Procedures that are Unique to NGVs; Perform Basic Maintenance and Repair Procedures
- Identify the Components and Operation of the Cummins ISL G Engine, Fuel, Ignition and Exhaust Emissions Systems; Perform Basic Maintenance and Repair Procedures
- Diagnose Electrical Related Issues, Sensors and Solenoids using Wiring Diagrams, Service Information, DMMs and Scan Tools; Identify and Interpret Diagnostic Data
- Diagnose Hard Starting and/or Poor Driveability caused by the NGV Fuel System
- Identify Unique Components and Operation of an LNG and HPDI LNG Fuel Systems
- Increase the Technician's Knowledge and Preparation for Successful Completion of the ASE H1 Alternative Fuels Certification Exam

Safety Training cannot exceed 10% of total training hours per-trainee

Note: Reimbursement for retraining is capped at 60 total hours per-trainee, regardless of method of delivery.