

Willdan Clean Energy Academy [CEA]

Cohort 1 & 2 Reporting

Project Director: Antuan Cannon

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Contract Number: 142989

Purchase Order Number: 148165

Total Invoice Amount: \$51,471.42

The Willdan Clean Energy Academy [CEA] supported by NYSERDA PON 3981 funding, successfully completed the first two cohorts of the training, with 26 graduates, in March of 2020. Each student participated in a combination of 60 hours of in classroom training and hands on technical training. The training took place from Monday through Friday, from 9am - 4pm over a two a two-week training period.

The training curriculum consisted of the following lessons:

- Green Economy
- Lighting Systems
- HVAC-R Systems
- Health & Safety Standards

The 26 participants were divided into two classes that were conducted in two different locations, both conducted over the same period of time. Many of the students who attended Class #1 were from various cultural and economic backgrounds, while all of the students that participated in Class #2 were from an energy efficiency training program for youth called Green City Force located in Brooklyn.

Class #1 (11 students)

Location:

Willdan Energy Services Maspeth
58-30 64th Street
Maspeth, NY 11378

Instructors:

- Clayton Gregory
(Clay@greentechleaders.com)
- Gary Smith (smithgary252@gmail.com)
- Antuan Cannon (acannon@willdan.com)

Class #2 (15 students)

Location:

The Gregory Jackson Center for
Brownsville
519 Rockaway Avenue
Brooklyn, NY 11212

Instructors:

- Alejandro Alvarez
(aalvarez@soulfulsynergy.org)
- Xavier Givens (xgivens@Energyedc.com)
- Antuan Cannon (acannon@willdan.com)





The classroom environment the instructors created was relaxed, friendly, and relatable which allowed for a lot of interaction with the student participants. The students were able to ask detailed questions about the subject matter and engage with instructors in a way that made them know they were always being listened to. Participants were also able work together in groups to aid in the learning experience and overall retention of material. Towards the end of the training program students were able to perform hands on level 1 energy audits of commercial spaces in New York. Some students were taken to church locations while others were taken to office spaces in order to educate the students to better understand how the building performs relative to its peers; establish a baseline for measuring improvements; determine whether further evaluation is needed; and when so, where and how that effort can be focused.



The feedback from both the classroom and hands on training has been incredible. Students mentioned how the skill sets they acquired were practical and easy to apply in real world settings. This positive feedback has also been reflected in the job placement support services we have rendered to program graduates. With roughly 90% of students who graduated from the program being placed into part time or full time employment opportunities, the responses from students have been filled with gratitude. The skills that they learned by committing themselves to the training process, has enabled them to excel with confidence in a new field of endeavor.



The training program objective is to improve performance of energy efficiency programs serving the small commercial market segment. Furthermore, this coursework will lead to nationally recognized certifications and is eligible for continuing education credits. It is intended that participation in this training program prepare trainees for jobs in the following occupations: Energy Auditor, Energy Analyst, Project Coordinator, Project Manager, Business Development Specialist, and Inspector.

These courses blend technical training on energy efficiency and building performance for small commercial facilities with broader green business training related to energy efficiency contracting, economic incentives, market drivers, certifications, institutions, policies and regulations.

Costs associated with the training program were offset in large part by in-kind contributions from Willdan. Training location space was provided by Willdan as well as the sample equipment used in the classroom to help teach students how to identify different lighting fixtures.



Student Testimonials:

Testimonial #1:

I'm proud of being a Win Win Academy graduate. The two weeks of intensive training were exciting, challenging, and totally worth it. Since the first day I arrived at the classroom I could sense the instructors' vigorous passion to teach and the equally vigorous passion of the students to learn. The instructors equipped us with a large binder full of material to review and gave us interactive activities to put our knowledge into practice. In those two-weeks I reinforced and learned new concepts in lighting, HVAC, and the green economy. Additionally, I practiced my soft skills by asking questions to professionals in the field. I grew attached to my classmates as well as my instructors to the point that I was a little sad it was coming to an end.



The Win Win Academy program entailed a free-of-charge opportunity for underserved communities to grow professionally in the energy sector. In a final note, I would like to mention that I believe that the Win Win Academy gave us all the confidence to be competent in our job field serving the energy industry. For that reason, I will be forever grateful of being part of an initiative like this and I will always vouch for the creation of new initiatives that will strengthen the energy industry of which I am very fond of.

Claudian Duran

CUNY City College of New York, *Environmental Engineering Student*

Testimonial #2:

I went through the Win-Win 2 week intensive program in January 2020. I was a senior in Mechanical Engineering at City College of New York (CCNY). I learned of the program through the Engineers without Borders club at CCNY. The Win-Win lectures covered many topics in the Energy Efficiency field, including lighting, HVAC, building science, auditing, career paths, history, policy, and professionalism. Because of the Win-Win I was able to break into the energy efficiency field and was hired by Willdan, a subcontractor that manages 2/4 of ConEd's Direct Install Energy Efficiency programs, for a Jr. Engineer position before the end of the program. In particular, I am grateful for the program's relevance to the position. The programmatic concepts and terminology I learned at Win-Win greatly helped in shortening the learning curve once I started at Willdan.



Robin Das

CUNY City College of New York, *Mechanical Engineering Graduate*

Energy Efficiency and Clean Technology Workforce Training Metrics Table

Contractor Information		
Contractor Name		Willdan Lighting & Electric, Inc. (WLE)
Agreement Number		142989
Reporting Period (MM/DD/YYYY – MM/DD/YYYY)		03/01/2020 - 03/31/2020
Metrics Summary		
Enter <u>cumulative</u> totals for the project to date:		
A	Total number of individuals receiving training	26
B	Breakdown of training types (total of rows B1, B2, and B3 should equal row A)	
B1	Number of individuals receiving training – Online Training	0
B2	Number of individuals receiving training – In Person Training	26
B3	Number of individuals receiving training – Combination of Online and In-Person Training	26
C	Number of individuals from priority populations receiving training	
C1	Veterans	0
C2	Native Americans	0
C3	Individuals with disabilities	0
C4	Low Income individuals*	11
C5	Unemployed power plant workers	0
C6	Previously incarcerated individuals	0
C7	18- to 24-year olds in work preparedness training programs that include energy related technical training**	15
D	Number of trainers trained	4
E	Number of new curricula developed	1
F	Number of curricula modified	4
G	Certifications earned	26
H	Individuals interviewed for job placement	19
<i>(table continues on next page)</i>		
I	New workers placed in jobs within 9 months of completion of training	9
J	<p>Project-specific metrics related to trainees’ achievements (e.g., additional training, credentials earned, advancements, wages, wage growth, internships, pre-apprenticeships, apprenticeships) as outlined in Contractor’s plan for tracking trainee post-training. Provide in the report narrative if more space is needed.</p> <p>Continual training has been offered for graduates interested in HVAC via weekly virtual classroom sessions, instructed by Antuan Cannon.</p> <p>From the initial interview to course completion, each participant is evaluated along multiple job tracks to ultimately determine the proper employment partner and type of work to match the participant with.</p>	

* Low-income individuals are defined as those whose household’s total income is below or at 60% of the State Median Income, or the household has been determined eligible for or is receiving assistance through the Home Energy Assistance Program (HEAP), Temporary Assistance for Needy Families (TANF), Supplemental Nutrition Assistance Program (SNAP), or other human service benefit program

**Youth work preparedness programs such as BOCES, technical high schools, Conservation Corps, Youthbuild, AmeriCorps, etc

Cost Overview

The total cost per student to recruit, interview, deliver the training, pair with an employer, and track all of the necessary data, after the in-kind contribution is accounted for, comes out to a total cost of **\$1,979.67** per student.

Given that for Cohort #1 and #2, we graduated a total of 26 students, to total costs for this cohort is: **\$51,471.42**

Expenses by Task

Expenses by Task	
Task	Total Cost
Program Administration	\$12,458
Project Management	\$10,000
Training Delivery	\$11,000
Tech Support	\$3,250
Outreach & Recruitment	\$11,000
Career Services	\$3,750
TOTAL	\$51,458

Expenses by Personnel

Expenses by Role			
Role	Rate	# of Hours	Total Cost
Program Director	\$150	83	\$12,458
Program Manager	\$100	50	\$5,000
Program Coordinator	\$50	100	\$5,000
Trainer	\$75	127	\$9,500
Training Assistant	\$40	38	\$1,500
Outreach Specialist	\$60	125	\$7,500
Career Specialist	\$85	85	\$7,250
Tech Support	\$75	43	\$3,250
TOTAL		568	\$51,458

