

SOLARone

WORKFORCE

Training for Jobs in the Clean Energy Economy



Solar One's Green Workforce Training Program offers hard-skill technical training and environmental sustainability education tied to the high growth areas of energy efficiency, renewable energy, and green building operations and maintenance.

We design and deliver our courses in active, hands-on formats in our training lab, guaranteeing a learning environment that is engaging and inclusive.

Solar One is a BPI approved Testing Center, EPA RRP accredited, and an Urban Green USGBC GPRO instructional provider. In addition to Solar One Certificates of Completion, we offer BPI training and certification at the Building Analyst and Energy Efficient Building Operator levels.

OUR COURSES:



Green Building Operations and Maintenance



Solar Panel Installation



Basic Green Construction: Electrical, Plumbing, and Carpentry

WHY GREEN JOBS?

The New York City metropolitan region has significant potential for job growth in the energy efficiency, renewable energy and green building maintenance and operations sectors. The city is proving itself as an international leader in advancing the green industry sector through aggressive programs to curb carbon emissions and energy use. The Climate Mobilization Act, passed in spring 2019, is driving demand for clean energy jobs in New York City in both the short and long term.

Through this set of new bills, **over 140,000 jobs** are projected to be created in the building operations and maintenance space within the next decade.

OUR STUDENTS:

Our training has reached over **4,000 students**.

Trainees include unemployed and underemployed individuals that participate in workforce training programs.

We work with our partners to achieve a **75% job placement rate** or higher for Solar One trainees, with over **80% of those entering the green job sector**.

Program graduates are working as construction workers, weatherization technicians, electrical retrofitters, auditors, solar installers, porters and custodians.

OUR INSTRUCTORS:

Solar One's instructors are certified by BPI at the Building Analyst, Envelope, and Multifamily Building Operator levels and approved as USGBC Urban Green GPRO instructors. Our instructors are BPI proctors, and our solar PV and thermal instructors are NABCEP certified.

OUR FACILITIES:

The Solar One Green Workforce training lab is outfitted with classrooms, hands on training areas and equipment: high efficiency boiler and furnace simulators; exposed wall cavities for practicing air sealing, foam and cellulose insulation techniques; drywall repair; general plumbing, HET toilets and other water conservation measures; electrical retrofitting equipment; lead, renovation, repair and painting equipment; replaceable windows and doors; an attic floor and knee wall simulators; plus a simulated roof for solar PV and thermal panel installation. In addition, we have a separate outdoor lab area for solar site analysis and design exercises.



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CAREER GROWTH

Solar One facilitates green job placements for workforce populations by engaging green employers who work in HVAC, electrical, weatherization, property management, building operations and maintenance, auditing, solar installation, and green infrastructure (green/blue roofs, swales) construction. As a green industry employer or trade organization, you can be involved in many different ways:

- Hiring qualified, well-trained workforce candidates
- Sending us job announcements
- Offering mentoring or internship opportunities to green workforce program graduates
- Reviewing green training curriculum to ensure it addresses hiring needs

TAILORED SERVICES FOR EVERY PARTNER

In order stay on top of the industry's needs, we offer both in-person and virtual training to make sure we can reach as many trainees as possible.

We take pride in customizing programs as they best suit our partners' needs. Adapting to specific job opportunities, time allotments, and budgets, we strive to deliver the best service to our partners.



COURSE NAME

DESCRIPTION

CERTIFICATION

Green Building Operations & Maintenance
(90 hours)

Covers how to operate and maintain buildings in an energy-efficient manner. Trouble shooting and maintenance of HVAC systems; lighting systems and bill analysis; green custodial services; electrical, HVAC and plumbing repair.

OSHA 30, EPA RRP, GPRO O&M CERTIFICATE, BPI MULTIFAMILY BUILDING OPERATOR CERTIFICATION

Basic Green Construction
(60 hours)

Green Carpentry, Electrical and Plumbing: appliances, tools, materials, reuse, fixture installation.

OSHA 30 CERTIFICATE OF COMPLETION BY SOLAR ONE

GPRO Operations and Maintenance
(18 hours)

Covers building metrics for improved performance, reducing water use, more efficient and cost effective HVAC systems and lighting, and understanding NYC energy auditing retro-commissioning requirements.

GPRO O&M CERTIFICATE

BPI Multifamily Building Operator
(48 hours)

Covers preventative maintenance; managing airflow and ventilation; heat loss; managing peak electrical demand; HVAC operation and maintenance; water conservation; green cleaning methods: recycling; integrated pest management; and how to make buildings more comfortable, healthy, and sustainable.

BPI BUILDING MULTIFAMILY OPERATOR CERTIFICATION

Solar Photovoltaic Installation
(30 hours)

Science and mechanics of solar photovoltaic (PV), installation training, and current information on grid interconnection, net-metering and rebates.

NORTH AMERICAN BOARD OF CERTIFIED ENERGY PRACTITIONERS (NABCEP) PV ASSOCIATE CERTIFICATION