



Hands-on learning at the Solar One Training Lab.

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

Learning is most effective when students are engaged and having fun. For that reason we design and deliver our courses in active, hands-on formats in our state-of-the-art training lab. 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.

GREEN SKILLS



ENERGY EFFICIENCY



RENEWABLE ENERGY



BUILDING OPERATIONS
& MAINTENANCE

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.

New York City is an international leader in advancing the green industry sector through aggressive programs to curb carbon emissions and energy use. The Greater Greener Building Law, Green Jobs Green New York, on-bill finance, NYSERDA and Con Edison incentive programs and other existing and planned initiatives, coupled with rising energy costs, will drive demand for green jobs in New York City in both the near and long term.

SOLAR ONE LAB

The Solar One Green Workforce training lab is outfitted with classrooms, hands on training areas and new state-of-the-art equipment: blower doors; 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.

OUR STUDENTS

Solar One's training has reached over 2,500 students. Trainees include unemployed and underemployed individuals that participate in workforce training programs.

Our primary partners achieve a 61% job placement rate for Solar One trainees, with 81% of those jobs classified as green. Program graduates are working as weatherization technicians, electrical retrofitters, auditors, solar installers, porters and custodians.

"In large metropolitan areas, where 75 percent of recent green jobs are concentrated, the clean economy offers more opportunities and better pay for low- and middle skilled workers than the national economy as a whole, with a disproportionate percentage of jobs in the clean economy staffed by workers with relatively little formal education in moderately well-paying 'green collar' occupations."

— **Brookings Institution**

GREEN EMPLOYER CONNECTIONS

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 greenworkforce program graduates
- Reviewing green training curriculum to ensure it addresses hiring needs






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. Some of our instructors are BPI proctors, and our solar PV and thermal instructors are NABCEP certified.



OUR COURSES

Following is a list of our current course offerings.

Course	Description	Hours	Certification
 Green Building Operations & Maintenance	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.	90	OSHA 10, EPA RRP, GPRO O&M CERTIFICATE, BPI MULTIFAMILY BUILDING OPERATOR CERTIFICATION
 Basic Green Construction	Green Carpentry, Electrical and Plumbing: appliances, tools, materials, reuse, fixture installation.	60	SOLAR ONE CERTIFICATE OF COMPLETION OSHA 10
 GPRO Operations and Maintenance	Covers using building metrics to improve performance, improving the building envelope, reducing water use, strategies for more efficient and cost effective heating and cooling systems and energy efficient lighting, and understanding NYC energy auditing in addition to retro-commissioning requirements.	18	GPRO O&M CERTIFICATE
 BPI Multifamily Building Operator	Covers preventative maintenance; managing airflow and ventilation; heat loss; managing peak electrical demand; heating and cooling system operation and maintenance; water conservation; green cleaning methods: recycling; integrated pest management; and how to make buildings more comfortable, healthy, and sustainable.	48	BPI BUILDING MULTIFAMILY OPERATOR CERTIFICATION
 Solar Photovoltaic Installation	Science and mechanics of solar photovoltaic (PV), installation training, and current information on grid interconnection, net-metering and rebates.	30; 36 with NABCEP	NORTH AMERICAN BOARD OF CERTIFIED ENERGY PRACTITIONERS (NABCEP) PV ASSOCIATE CERTIFICATION