



Ulster County 2021 Climate Smart Communities Recertification Documentation

PE8 Action: Green Jobs Training

3 points documented

Background: Ulster County Government (Office of Employment and Training) and SUNY Ulster have launched the Green Careers Academy, a program to deliver the skills and expertise necessary to begin or advance careers in the expanding clean technology industry. This program is currently active.

The Ulster County Office of Employment & Training's Young Adult Employment Program also offers Green Careers Internships. The focus of this program is to place young adults between the ages of 18 and 24 into green jobs/careers and assist them in receiving additional training at either SUNY-Ulster's Green Careers Academy or at Ulster BOCES green career pathway classes. The County partners with local environmental groups and green business leaders in this program.

Documentation:

- Ulster County Green Careers Academy website: <https://ulstergreenjobs.com/>
- Green Careers Academy course offerings: https://www.sunyulster.edu/continuing_education/industrial-tech/green-careers.php
- Green Careers Internships Page: <https://www.ulsterworks.com/young-adults/green-youth-fellowship>
- Email from SUNY Ulster showing numbers of students training in the Green Careers Academy program over the past year (as of 3/16/2021)

ACT FAST! FOR MORE INFORMATION, CALL 845-339-2025.



Learn Green and Earn Green with the Green Careers Academy at SUNY Ulster.



SIGN UP NOW

**Classes begin
March 1**



Plus, here's the good news: Through a grant with the New York State Energy Research & Development Authority (NYSERDA), SUNY Ulster is offering reduced rates on tuition for the Green Careers courses. This discount is available for most residents who live in New York State.

All course offerings lead to industry recognized certifications. See a list of [course offerings here](#), and be sure to fill out the registration form below for additional information on how to sign up for your desired course(s).



The U.S. Bureau of Labor Statistics (BLS)

projects job growth in occupations

relating to helping the environment or

conserving natural resources. If you're

thinking of entering a field that's ahead of

the curve... now is the time!



SIGN UP TODAY

Name *

First

Last



Address *

City *

State *

Zip *

Email *

Email

Confirm Email

Phone *



Green Careers Academy Intro



Launch a career that helps the environment, promotes sustainability and makes a difference in your community – all while earning a great living.

Ulster County Government and SUNY Ulster have launched the Green Careers Academy, a program to deliver the skills and expertise necessary to begin or advance careers in the expanding clean technology industry.

These certifications provide a standard that sets you apart, showcasing your deep knowledge and experience to employers and customers alike. Whether you're at the entry level or are an experienced contractor with your own company, training and certification can increase the quality and value of your work.

Currently Working *

Yes

No

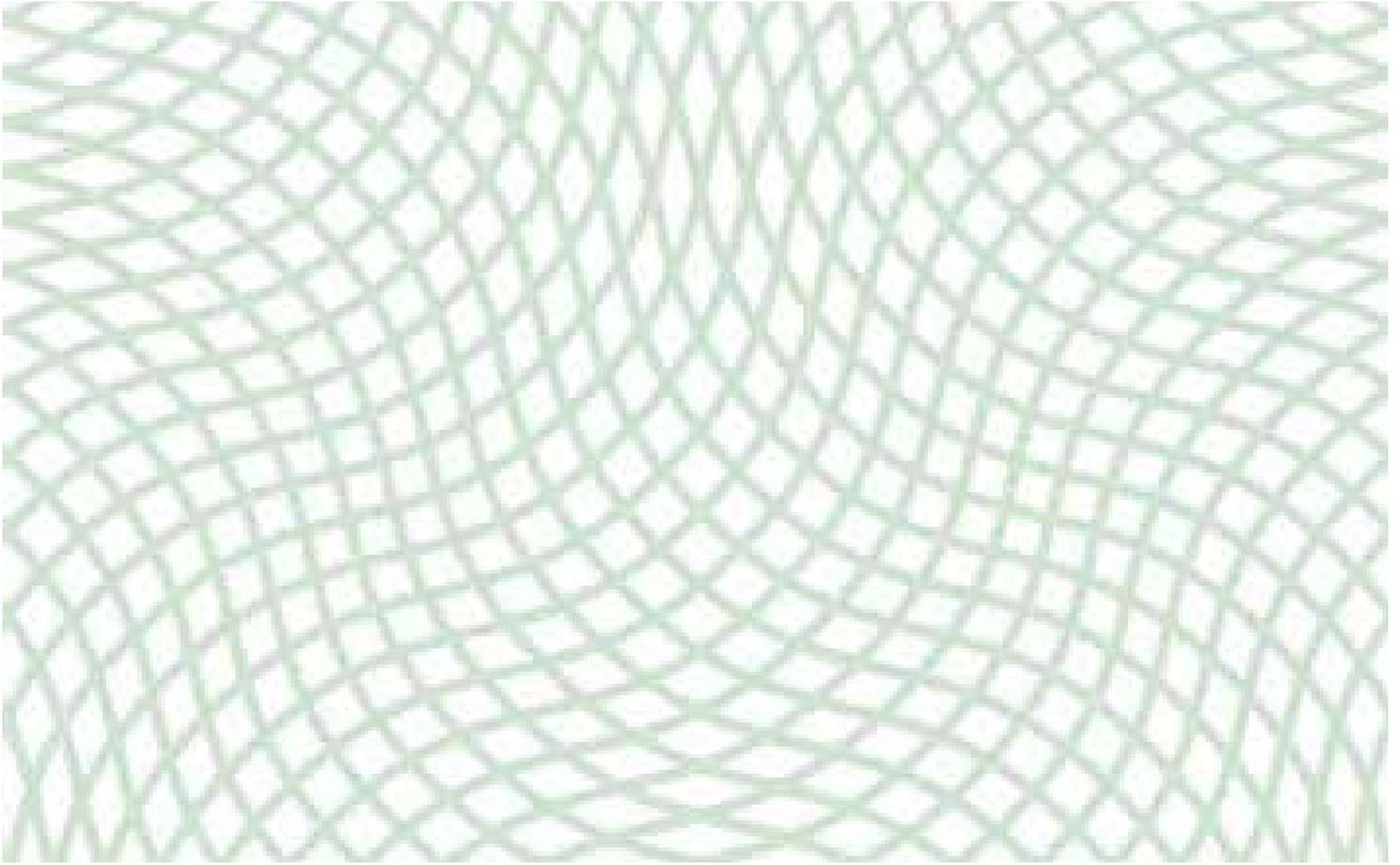


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SUBMIT





Learn Green and Earn Green with the Green Careers Academy at SUNY Ulster.

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Green Careers



In collaboration with Ulster County, SUNY Ulster delivers the skills and expertise necessary for those in the community to begin careers in the expanding clean technology industry. Courses in both clean technology and energy efficiency leading to certificates and certifications are offered. In addition, SUNY Ulster in partnership with SUNY Sullivan offers an Green Building Maintenance and Management AAS degree.

Course Offerings

Electrical Theory I Basics

This electricity fundamentals course is geared towards those looking to understand electricity as it relates to a manufacturing or construction career. Topics covered will include basic electrical principles, Ohm's Law, Watt's Law, power, energy, series & parallel circuits, ampacity, wire sizing, magnetism, alternating current, capacitors, inductors, 3-phase power, motors, troubleshooting, and electrical safety. This course includes a lab component. Course is a prerequisite for Photovoltaics (PV) Systems. For students taking this course as a pre-requisite for Photovoltaics (PV), please call the CE Registration team to register at 845-339-2025 for a discounted rate.

DCB 1947 ([https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?](https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=30209%20202103&add_btn=Register&crse_cnt=0)

sel_crn=30209%20202103&add_btn=Register&crse_cnt=0) CRN 30209 T/R 3/2-16 5:30-8:30pm Remote \$199 (\$49 when taken in conjunction with DCB1795 Photovoltaics. Contact the registration team to register with the discount)

Photovoltaics (PV) Systems

Learn the basics of photovoltaic (PV) components, design, and installation-- including how to conduct a site survey, the effects of shading and orientation, basic sizing and design of grid-tied and battery systems, and installation and safety procedures for installers. The course will discuss how electrical code applies to PV systems and evaluate various mounting systems. Course includes hands-on construction of a PV system. Students completing this course may sit for the NABCEP Photovoltaic Associate Level Exam. Exam not included in course price. Prerequisite: Electrical Theory or permission of the instructor.

Textbook: Understanding Photovoltaics, Warmke, 8th edition ISBN: 978-0-9791611-8-6

MFG 120 T/R 3/23-5/6 SRC-Kelder \$656

DCB 1795 ([https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?](https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66851%20202106&add_btn=Register&crse_cnt=0)

sel_crn=66851%20202106&add_btn=Register&crse_cnt=0) CRN 66851 T/R 5:30pm-8:30pm 3/23, 3/25, 3/30, 4/1, 4/6, 4/8, 4/13, 4/15, 4/27, 4/29 Remote \$656

T/R 5:30pm-8:30pm 4/20 & 4/22, 5/4 & 5/6 SRC-Kelder

If you are unemployed or underemployed, financial assistance may be available for this course through the Ulster County Career Center (<https://www.ulsterworks.com/training>).

BPI Building Science Principles

Earning the Building Science Principles (BSP) Certificate of Knowledge is your first step into the world of energy efficient home performance. You will learn some of the widely-used industry terminology related to building science. Building science demonstrates how various components of a home interact to affect the home's overall performance. Understanding the relationships between the building envelope, heating, A/C, insulation, mechanical ventilation, lighting, appliances and other systems of the home will enable you to assist yourself and others. Learn how these systems affect the comfort, health and safety of occupants and durability of the home. Discover why improving the energy efficiency of the home should be the first step toward solar, geothermal, or other renewable energy improvements. Course price includes study materials and certificate exam. This course is delivered either in book form for self-study or content can be available via web-based for self-study. Live Zoom sessions with the instructor will be made available to those that have questions. Course should take about 18 hours to study materials in order to take the certificate exam.

DCB 2323 ([https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?](https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66837%20202106&add_btn=Register&crse_cnt=0)

sel_crn=66837%20202106&add_btn=Register&crse_cnt=0) CRN 66837 Rolling Enrollment Online \$235 / FREE for students who qualify for the NYSERDA grant (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

BPI Building Analyst Professional

Prepares students to perform “whole-house” energy assessments, identifying a building’s problems at the root cause and prescribing and prioritizing solutions based on building science principles. Upon successful completion of the written and field exams, students receive Building Analyst Certification. Approved by New York State Bureau of Veterans Education for payment of VA Education Benefits. Approved for 8.5 BPI CEUs.

Prerequisite: Basic building science background strongly recommended.

Reference textbook: Residential Energy ISBN: 9781880120231

DCB 1842 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=30208%20202103&add_btn=Register&crse_cnt=0) **CRN 30208 M-R 2/08-12 9am-5pm Hybrid \$995 / \$295 for students who qualify for the NYSERDA grant (/continuing_education/student-resources/scholarships.php)** (this includes ALL Ulster County residents).

- Live via Zoom M/T/W 9am-5pm

- In person at the Stone Ridge Campus in the Kelder Building, Thursday 2/11 9am-5pm

BPI Written Exams

All written exams are by appointment and subject to a \$200 non-refundable fee. After registering for any of the BPI Written Exams, you will be contacted via email to arrange an exam date. Exams are held remotely via Zoom. SUNY Ulster will follow guidelines set by BPI.

DCB 1025 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66805%20202106&add_btn=Register&crse_cnt=0) **CRN 66805 BPI Building Analyst Written exam Remote \$400 / \$100 for students who qualify for the NYSERDA grant (/continuing_education/student-resources/scholarships.php)** (this includes ALL Ulster County residents).

DCB 1026 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66806%20202106&add_btn=Register&crse_cnt=0) **CRN 66806 BPI Building Envelope Written exam Remote \$400 / \$100 for students who qualify for the NYSERDA grant (/continuing_education/student-resources/scholarships.php)** (this includes ALL Ulster County residents).

DCB 1635 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66807%20202106&add_btn=Register&crse_cnt=0) **CRN 66807 BPI Building Heating Professional Written exam Remote \$400 / \$100 for students who qualify for the NYSERDA grant (/continuing_education/student-resources/scholarships.php)** (this includes ALL Ulster County residents).

DCB 1262 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66808%20202106&add_btn=Register&crse_cnt=0) **CRN 66808 BPI Building A/C Heat Pump Written exam Remote \$400 / \$100 for students who qualify for the NYSERDA grant (/continuing_education/student-resources/scholarships.php)** (this includes ALL Ulster County residents).

BPI Envelope Professional

Learn to quantify whole-house performance and prescribe improvements to help tighten the building envelope (shell), stop uncontrolled air leakage, install needed insulation, and optimize comfort, durability and HVAC performance. Prerequisite: BPI Building Analyst training. Approved for 8.5 BPI CEUs.

DCB 1843 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=30207%20202103&add_btn=Register&crse_cnt=0) **CRN 30207 T-F 3/9-3/12 9am-5pm Hybrid \$995 / \$295 for students who qualify for the NYSERDA grant (/continuing_education/student-resources/scholarships.php)** (this includes ALL Ulster County residents).

residents). *NOTE: Tuesday, Wednesday and Friday via Zoom. Thursday in person at SRC-Kelder.*

Grant funding may be available to students for this course. Please contact reerb@sunyulster.edu (mailto:reerb@sunyulster.edu) to inquire about funding.

BPI Heating Professional

Learn how to optimize the performance of heating equipment to help save energy and ensure occupant comfort, health, and safety. Approved for 8.5 BPI CEUs. Approved by New York State Bureau of Veterans Education for payment of VA Education Benefits. Prerequisite: BPI Building Analyst training. Students will meet with the instructor via Live Zoom on M-W and on F. On Thurs, students will meet face-to-face following SUNY guideline and procedures for health and safety during a pandemic. Students are responsible for checking their e-mails regarding these procedures. Class on Thurs will be held at Kelder Test House located on the SUNY Ulster Stone Ridge Campus.

DCB1036 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=30235%20202103&add_btn=Register&crse_cnt=0) **CRN 30235 M-F 04/19-04/23 9am-5pm Hybrid \$995 / \$295** for

students who qualify for the NYSEERDA grant (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents). Contact Barbara Reer at reerb@sunyulster.edu (mailto:reerb@sunyulster.edu)

BPI A/C Heat Pump Professional

DCB 1256 - Available upon request. Contact Barbara Reer at reerb@sunyulster.edu (mailto:reerb@sunyulster.edu)

BPI Field Test Prep

SUNY Ulster offers a review field test prep class for those looking to gain a little extra time in using the equipment needed in the BPI Field Exams. Register online and you will be contacted regarding available test dates.

DCB 1183 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66809%20202106&add_btn=Register&crse_cnt=0) **CRN 66809 BPI Building Analyst Field Test Prep \$250 / \$75** for

students who qualify for the NYSEERDA grant (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

DCB 1890 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66810%20202106&add_btn=Register&crse_cnt=0) **CRN 66810 BPI Envelope Professional Field Test Prep \$250 /**

\$75 for students who qualify for the NYSEERDA grant (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

DCB 1891 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66811%20202106&add_btn=Register&crse_cnt=0) **CRN 66811 BPI Heating Professional Field Test Prep \$250 / \$75** for

students who qualify for the NYSEERDA grant (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

DCB 1893 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66812%20202106&add_btn=Register&crse_cnt=0) **CRN 66812 BPI A/C Heat Pump Field Test Prep \$250 / \$75** for

students who qualify for the NYSEERDA grant (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

Grant funding may be available for these test prep classes. Please contact reerb@sunyulster.edu (mailto:reerb@sunyulster.edu) to inquire about funding.

BPI Field Exams

All field exams are by appointment and subject to a \$200 non-refundable fee. Exams are held in Kelder located on the SRC. To register call 845-339-2025.

DCB 1143 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66813%20202106&add_btn=Register&crse_cnt=0) **CRN 66813 BPI Building Analyst Field exam \$400 / \$100 for students who qualify for the NYSERDA grant** (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

DCB 1149 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66814%20202106&add_btn=Register&crse_cnt=0) **CRN 66814 BPI Building Envelope Field exam \$400 / \$100 for students who qualify for the NYSERDA grant** (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

DCB 1150 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66815%20202106&add_btn=Register&crse_cnt=0) **CRN 66815 BPI Building Heating Professional Field exam \$400 / \$100 for students who qualify for the NYSERDA grant** (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

DCB 1270 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=66816%20202106&add_btn=Register&crse_cnt=0) **CRN 66816 BPI Building A/C Heat Pump Field exam \$400 / \$100 for students who qualify for the NYSERDA grant** (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

Grant funding may be available for these exams. Please contact reerb@sunyulster.edu (mailto:reerb@sunyulster.edu) to inquire about funding.

BPI Infiltration and Duct Leakage (IDL)

Infiltration and Duct Leakage (IDL) certification is a simple, comprehensive, and affordable way for builders, remodelers, HVAC, insulation, and other contractors to gain the skills needed to offer duct leakage and blower door tests, in compliance with IECC codes for new home construction or existing home remodels. By earning the IDL certification, you prove that you can conduct duct leakage tests to the ASTM E1554-07 standard and blower door tests to the ASTM E779 standard. Course price is for class instruction only. To register for the certification exam, register for DCB 8380.

DCB 7840 by appointment SRC, Kelder \$400 / \$300 for students who qualify for the NYSERDA grant (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

Grant funding may be available to students for this course. Please contact reerb@sunyulster.edu (mailto:reerb@sunyulster.edu) to inquire about funding.

BPI Infiltration and Duct Leakage (IDL) Review Class

A review class for those students already familiar with the terms and equipment needed for the BPI IDL Certification exam. Course price is for review of material only. To register for the certification exam, register for DCB 8380.

DCB 2327 by appointment SRC, Kelder \$200 / \$150 for students who qualify for the NYSERDA grant (/continuing_education/student-resources/scholarships.php) (this includes ALL Ulster County residents).

Grant funding may be available to students for this exam. Please contact reerb@sunyulster.edu (mailto:reerb@sunyulster.edu) to inquire about funding.

BPI Infiltration and Duct Leakage (IDL) Certification Field Exam

DCB 8380 by appointment SRC, Kelder \$400 / \$300 for students who qualify for the NYSEDA grant ([/continuing_education/student-resources/scholarships.php](#)) (this includes ALL Ulster County residents).

Grant funding may be available to students for this exam. Please contact reerb@sunyulster.edu (mailto:reerb@sunyulster.edu) to inquire about funding.

HEP Energy Auditor

Written exam **DCB 1268** by appointment \$500

Field exam **DCB 1269** by appointment \$600

Grant funding may be available to students for these exams. Please contact reerb@sunyulster.edu (mailto:reerb@sunyulster.edu) to inquire about funding.

HEP Quality Control Inspector

Written exam **DCB 2326** by appointment \$600

SUNY Ulster's Kelder Test House is an approved field test site for both the BPI Energy Auditor and BPI Quality Control Inspector Certifications.

Grant funding may be available to students for this course. Please contact reerb@sunyulster.edu (mailto:reerb@sunyulster.edu) to inquire about funding.

Building Automation

This building automation training course will serve to help progress industry understanding of best practices in the development and deployment of building automation systems of varying degrees of complexity. Topics include: Building controls 101 Network communication basics: BACnet, LonWorks, Modbus, etc Building automation architectures: sensors, controllers, servers, etc BAS integration & the Niagara framework Advanced Topics: The Future of Building Automation and Smart Buildings Your instructor is Grant G. Salmon, Territory Manager, NYS Honeywell BMS.

DCB 2345 (https://banner.sunyulster.edu/pls/prod/pw_ContinuingEd.p_AddCrse?sel_crn=30222%20202103&add_btn=Register&crse_cnt=0) CRN 30222 F 4/9 & 4/16 8am-12pm KSU 212 FREE

Home Inspection Training Course

AHIT (American Home Inspectors Training) is the nation's leader in home inspection training and training materials. They have been successfully training home inspectors for over a decade. Their training materials are being used across the country in real estate schools, colleges and universities.

Upcoming Class in Poughkeepsie, NY

Classroom: 7/19/2021-7/31/2021, Field: 8/2/2021-8/6/2021

Fill out the form (<https://www.ahit.com/advisor-request/?b2b=sunyulster>) to be contacted by one of AHIT's representatives to discuss the best course options for you and to register or call 262-565-5181.

Home Inspection Continuing Education

Advance your New York home inspection career with supplemental online certification courses to add to your home inspection business offered by AHIT (American Home Inspectors Training). These online classes provide everything you need to run your business and to ensure your success which include Commercial Remote Pilot Certification Prep Course, Inspecting Commercial Properties, World-class home inspection software, marketing and reference materials, tools, and more.

- Home Inspection License Expiration: Every two years by 12/31
- Home Inspection Continuing Education Requirements: 24 hours every two years

For registration, visit the Mbition website (<https://partners.mbitiontolearn.com/real-estate/new-york/home-inspection/certifications?partner=1724>). Or call 262-565-5181 with any questions.

VIRTUAL VISITS (<https://www.sunyulster.edu/visit/>)

FIND PROGRAMS (/academics/credit_programs/)

APPLY/REGISTER (/admissions/start_here/)

COVID-19 HUB (/campus_and_culture/covid-19-hub/index.php)

Upcoming Events

◀ Healthcare Training Information Session March 25
(<http://blog.sunyulster.edu/event/healthcare-training-information-session-march-25-and-april-8/>) ▶

FAST FINDS
CAMPUS RESOURCES
ABOUT US



SUNY Ulster
Start Here. Go Far.

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491 Cottekill Road
Stone Ridge, New York 12484
845-687-5000 | 800-724-0833



94 Mary's Ave., Kingston
right across from the
HealthAlliance Hospital
For more information,
call 845-687-KCSU



(<https://twitter.com/sunyulster>)



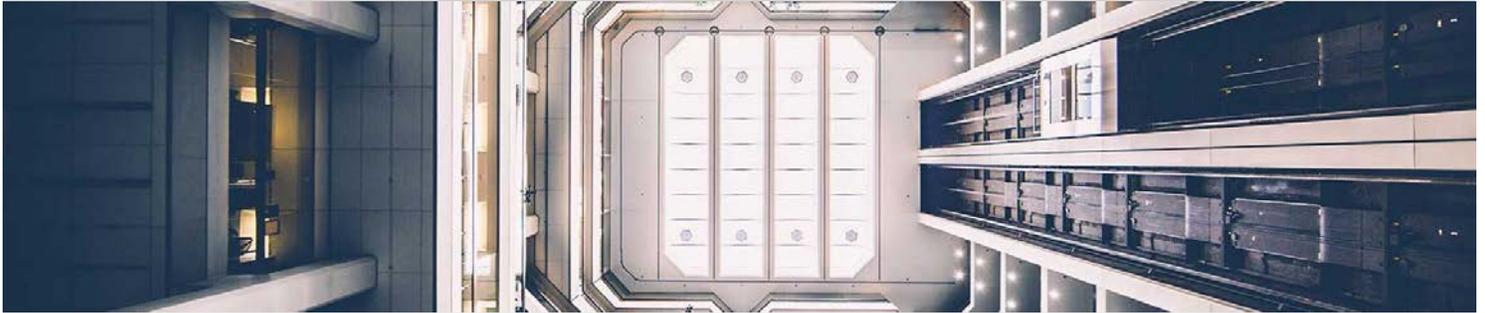
(<https://www.youtube.com/sunyulster>)



(<https://www.facebook.com/sunyulster>)



(<https://apps.sunyulster.edu/events/feed.rss>)



GREEN CAREERS INTERNSHIPS

[YOUNG ADULTS \(/YOUNG-ADULTS\)](#) |

[WIOA YOUNG ADULT EMPLOYMENT PROGRAM \(YAEP\) \(/YOUNG-ADULTS/WIOA-YOUNG-ADULT-EMPLOYMENT-PROGRAM\)](#)

[SUMMER YOUTH EMPLOYMENT PROGRAM \(/YOUNG-ADULTS/SUMMER-YOUTH-EMPLOYMENT-PROGRAM\)](#)

[JOB FAIRS \(/YOUNG-ADULTS/YOUNG-ADULT-JOB-FAIRS\)](#)

The Ulster County Office of Employment & Training's Young Adult Employment Program is launching a new program--the Green Careers Internships. The focus of this program will be to place young adults between the ages of 18 and 24 into green jobs/careers and assist them in receiving additional training at either SUNY-Ulster's Green Careers Academy or at Ulster BOCES green career pathway classes. We will be partnering also with local environmental groups and green business leaders.

This initiative will offer young adults the following opportunities:

- Paid internships for 6 to 12 weeks
- Payrate between \$13 and \$15 per hour
- Career services to help support educational and employment needs
- Funding for green trainings leading to certification

For more information call 845-340-3170 or email yaep@co.ulster.ny.us (<mailto:yaep@co.ulster.ny.us>).

Video relay service: 845-943-2968.

Auxillary aids & services are available upon request to individuals with disabilities.

GREEN CAREER INTERNSHIPS

Office of Employment and Training

Young Adult Employment Program



GREEN CAREERS INTERNSHIPS

Overview

The Young Adult Employment Program wants to pay you to learn!
8 spots available to participants
18-24 years old.

- ◆ Paid internships for 6 to 12 weeks with local Green contractors
- ◆ Career Services to help support your educational and employment needs
- ◆ Funding available for certificate trainings



Career Opportunities & Pathways :

- ◆ HVAC Technician
- ◆ Construction/ Laborer
- ◆ Energy Auditor
- ◆ Heat Pump Technician
- ◆ Solar Installer/ Field Technician
- ◆ Infiltration & Duct Leakage Technician

Course Offerings through:

**SUNY Ulster's
Green Careers Academy**

Earn certifications such as:

- ◆ BPI Building Science Principles
- ◆ BPI Analyst Professional



FOR INFORMATION:
PHONE: 845-340-3170

EMAIL: YAEP@CO.ULSTER.NY.US

Auxiliary aids & services are available upon request to individuals with disabilities.

[\(/sites/default/files/Green%20Careers%20Flyer.pdf\)](/sites/default/files/Green%20Careers%20Flyer.pdf)

GREEN CAREER FLYER (/sites/default/files/Green%20Careers%20Flyerv2_1.pdf)

RECENT NEWS

[County Executive Ryan Announces Plan to Significantly Limit Access to County Buildings and Increase Remote Staffing \(/news/county-executive-ryan-announces-plan-significantly-limit-access-county-buildings-and-increase\)](#)

Posted on : November 20, 2020

[U.S. Department of Labor Information about Unemployment During COVID19 \(/news/us-department-labor-information-about-unemployment-during-covid19\)](#)

Posted on : May 12, 2020

[Helpful Information on Filing Unemployment Claim \(/news/instructions-filing-unemployment-claim\)](#)

Posted on : April 30, 2020

[ALL NEWS \(/news/\)](#)

Contact Ulster County Career Center for more information; yaep@co.ulster.ny.us (<mailto:syep@co.ulster.ny.us>), or 845-340-3170



3/16/2021

In the past year, Ulster County Green Career's Academy at SUNY Ulster has offered the following courses:

BPI Building Science Principles Certificate of Knowledge

Earning the Building Science Principles (BSP) Certificate of Knowledge is your first step into the world of energy efficient home performance. You will learn some of the widely-used industry terminology related to building science. Building science demonstrates how various components of a home interact to affect the home's overall performance. Understanding the relationships between the building envelope, heating, A/C, insulation, mechanical ventilation, lighting, appliances and other systems of the home will enable you to assist yourself and others. Learn how these systems affect the comfort, health and safety of occupants and durability of the home. Discover why improving the energy efficiency of the home should be the first step toward solar, geothermal, or other renewable energy improvements. Course price includes study materials and certificate exam. This course is delivered either in book form for self-study or content can be available via web-based for self-study. Live Zoom sessions with the instructor will be made available to those that have questions. Course should take about 18 hours to study materials in order to take the certificate exam. **58 students trained**

BPI Building Analyst Professional Certification

Prepares students to perform "whole-house" energy assessments, identifying a building's problems at the root cause and prescribing and prioritizing solutions based on building science principles. Upon successful completion of the written and field exams, students receive BPI Building Analyst Certification. **18 students trained**

BPI Envelope Professional Certification

Learn to quantify whole-house performance and prescribe improvements to help tighten the building envelope (shell), stop uncontrolled air leakage, install needed insulation, and optimize comfort, durability and HVAC performance. Upon successful completion of the written and field exams, students receive BPI Envelope Professional Certification. **3 students trained**

BPI Heating Professional Certification

Learn how to optimize the performance of heating equipment to help save energy and ensure occupant comfort, health, and safety. Upon successful completion of the written and field exams, students receive BPI Heating Professional Certification. **6 students trained**

AAS Green Building Maintenance and Management

The Associate in Applied Science degree in Green Building Maintenance and Management provides students with the skills and knowledge needed to effectively manage buildings that incorporate sustainable building principles and technologies. All aspects of sustainable building operations are included in the program, including ecological design and maintenance principles; energy efficiency and renewable energy; green building products and materials; building automation and controls; sustainable landscaping and site selection; the LEED building assessment system; and life-cycle economic analysis. In addition to learning the most current theories, students acquire hands-on training related to energy management, photovoltaic arrays, wind turbines, geothermal HVAC systems, and other components of high-performance commercial buildings. Potential career options include green building project coordinator, facility manager, or sustainability consultant. This degree also complements further studies related to natural building, sustainable community development, building performance, HVAC operations and maintenance, and renewable energy installation and maintenance. **7 students in program**

Manual J,D,S HVAC Design Course

Residential Training on Right-Suite Universal for calculation of heat loads, duct sizing and equipment selection. Course covers both the principles as well as practical instruction on how to perform computerized calculations using Wrightsoft software. **127 students trained**

Barbara Ann Livermore Reer

Barbara Ann Livermore Reer

Assistant Dean for Workforce, Career Development and Apprenticeship Initiatives

Coordinator of Pfeiffer Technology and Innovation Lab

SUNY Ulster

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PE8 Action: Green Jobs Training

3 Points

A. Why is this action important?

An essential component of shifting to a green economy is training individuals for the jobs that such an economy will create. Green jobs can include the following, among others, each requiring new or adapted skills for a clean, green economy:

- Energy Manager
- Green Building Professional
- Renewable Energy Installer
- Recycled Materials Handler/Hauler
- Biofuels Producer
- Land-use planner
- Energy Auditor
- Clean Technology Manufacturer/Researcher/Developer
- Sustainability Educator
- Brownfield Remediation Worker

Similarly, a shift to a greener economy will require a shift in the information and skills taught in schools that prepare students for their future jobs.

B. How to implement this action

Local governments must determine the type of training that is most appropriate to the economy in their community and region. Smaller communities may seek to collaborate with neighboring communities to develop a green jobs training program that addresses the needs of the region. You must understand the job shortages in the community or region and local demand for certain green jobs or skills. Regional Economic Development Councils and associated regional economic development plans can help to inform the needs and types of programs which are most in demand locally. In addition, local governments should work with local trade organizations, vocational schools, and community colleges to survey existing training programs and gather information on the demand for new training programs. Once you have a good understanding of the demand and needs, you can develop the plans for the training program.

Local government staff should go through a “train the trainer” effort to work on greening existing job training curriculum and training staff on more sustainable approaches to be incorporated into their training programs. Implementing the green jobs training program could involve launching a whole new training course or program or updating existing training programs to incorporate sustainable principles and practices.

Local governments should track the number of attendees of the training program and, if possible, the subsequent job placement of the trained professionals. You may elect to highlight the success and impact of their training program through a press release, or possibly an event tied to a larger sustainability announcement or engagement opportunity.

Local governments can consider the expansion and improvement of existing education programs. Business owners can be educated on the benefits of investing in their workers to take advantage of market opportunities. Communication between schools and employers can be improved to support an increase in college classes, certification, and training programs. Also, programs can be tailored toward low-income workers. A “green collar” fund may be established to pay for worker training.

C. Time frame, project costs, and resource needs

The time frame and resource needs for this action depend on the approach to implementing the action, whether the approach involves developing a whole new training program, or incorporating sustainability principles and practices into an existing program. Local governments seeking to develop new training programs should seek opportunities to collaborate with other organizations such as local vocational schools or community colleges.

D. Which local governments implement this action? Which departments within the local government are most likely to have responsibility for this?

This action is relevant to any local government and would most likely be led by an economic development department or workforce development department or committee. Local school departments may also be engaged and it may be beneficial to collaborate with other non-profits or business entities within the community and work with the relevant Regional Economic Development Council. CSC can collaborate with local vocational schools and community colleges to incorporate green training into their curricula.

E. How to obtain points for this action

Points are earned for this Climate Smart Communities (CSC) action by establishing at least one green job or green skills training program or course per year. The program could be a single workshop that re-trains a particular profession for ways to “green” their work, or it could be an ongoing training program that introduces skills, provides hands-on training, and helps link participants to jobs. It might also be a “greening” of a curriculum or technical program within a vocational school or community college. The specifics will be dependent on the unique needs of each community.

F. What to submit

Submit documentation demonstrating that the training program occurred, such as an agenda for the training, any training materials used or provided, number of attendees (if available), and marketing materials. If the program is within an educational institution, a list of any relevant courses and or syllabi for those courses should be provided. Local governments must demonstrate that the program is currently active and that the training course occurred within one year prior to the application date.

All CSC action documentation is available for public viewing after an action is approved. Action submittals should not include any information or documents that are not intended to be viewed by the public.

G. Links to additional resources or best practices

- [Association for the Advancement of Sustainability in Higher Education \(AASHE\) Curriculum Resources](#)
- [New York City, NY, Green Jobs Training Program \(through NYC Brownfield Partnership\)](#)
- [Green Jobs Training Center](#)
- [Sustainable South Bronx Green Collar Workforce Training](#)
- [New York State Regional Economic Development Councils](#)

H. Recertification requirements

The recertification requirements are the same as the initial certification requirements.