

Green Jobs Training Center

ECA Training Courses

- PA Certification Courses – Installer, Crew Chief, Auditors
- Building Performance Institute
- EPA Lead Safety for Renovators
- OSHA 10 & 30
- Spray Foam Insulation and White Roof Coating
- Apprenticeship Program
- Weatherization and Retrofit
- Building Energy Management
- Benchmarking



Green Jobs Training Center

ECA – Community College Partnership

- CCP - provides Certificates, Academic Curriculum, and Middle-States academic accreditation
- ECA - provides Classroom and Hands-on training, Certification and employee guidance
- Together – 2 Apprenticeships approved by US DOL:
 - Weatherization Installer and Technician (WIT)
 - Building Energy Analyst (BEA)



Green Jobs Training Center

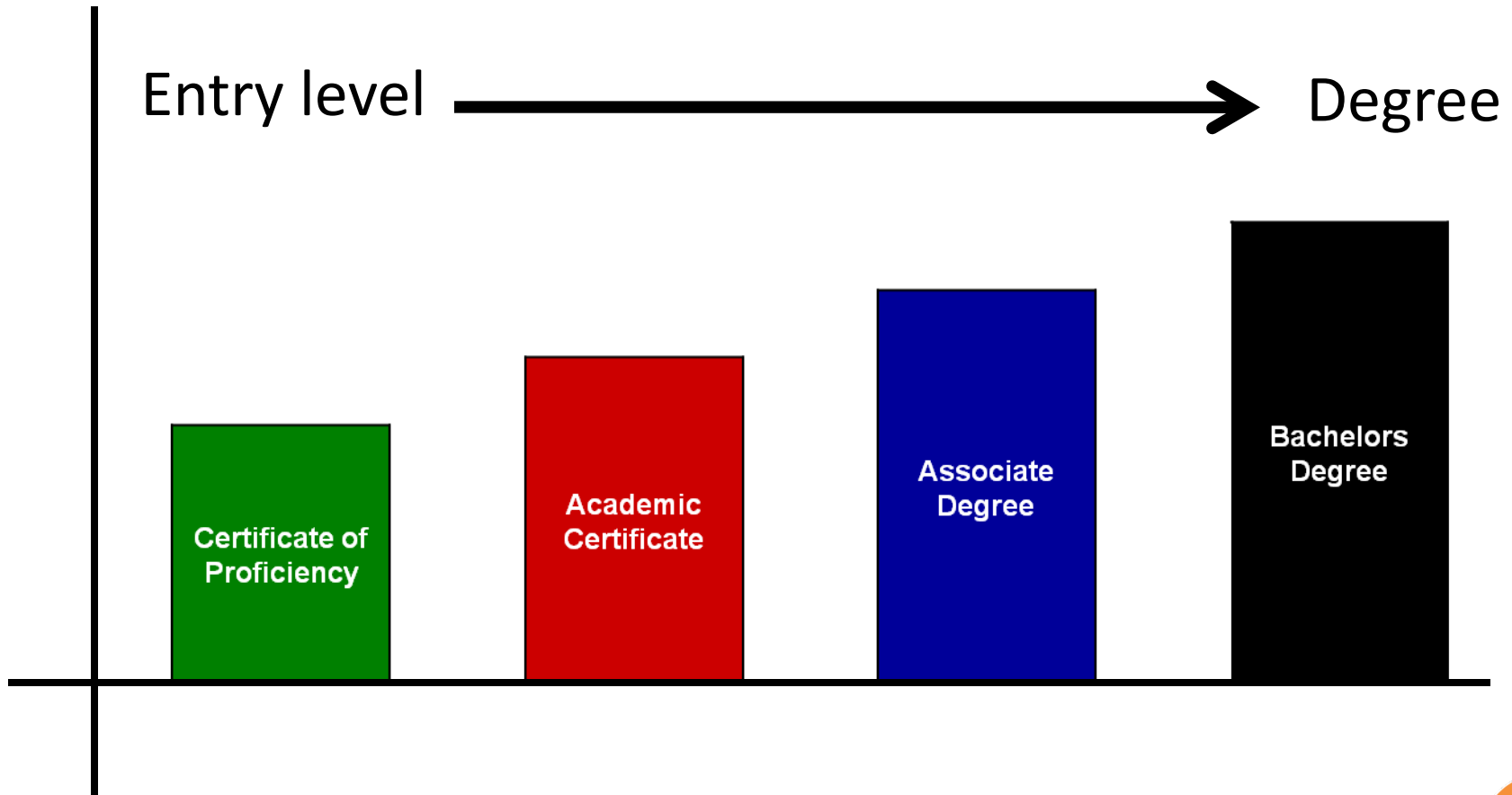
Apprenticeship Program

Developed in partnership with Community College of Philadelphia.
Objective is to build an educational continuum for Energy Conservation
and Building Science.



Green Jobs Training Center

Education Ladder



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WIT Apprenticeship Program

COURSEWORK SCHEDULE

Fall

ENGL 098	Fundamentals of Writing (if needed by the individual trainee – not for College credit)	45 hrs	(3 cr)
ENGL 099	Fundamentals of Reading (if needed by the individual trainee – not for College credit)	45 hrs	(3 cr)
ADC 103	Basic CAD	90 hrs	3 cr

Spring

ADC 101	Introduction to Design and Construction	45 hrs	3 cr
MATH 017	Elementary Algebra (if needed by the individual trainee – not for College credit)	45 hrs	(3 cr)

Summer

MATH 137	Geometry for Design	45 hrs	3 cr
ADC 136	Construction Safety & Building Codes	60 hrs	3 cr
TOTAL		240 hr	12 cr

WORK PROCESSES SCHEDULE

Introduction to Weatherization and Building Science	360	hrs
Safety Practices	160	hrs
Basic Carpentry	360	hrs
Materials, Tools and Equipment	160	hrs
Insulation	480	hrs
Air Sealing	360	hrs
Other Measures	120	hrs
TOTAL	2000	hrs



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WIT Apprenticeship Program

At the conclusion of this one year apprenticeship, successful participants will earn:

- Journeyman credential as a Weatherization Installer and Technician*
- Proficiency Certificate in Building Science – Energy Conservation from Community College of Philadelphia
- OSHA 30 hour Safety Certification
- EPA Lead Certification

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BEA Apprenticeship Program

COURSEWORK SCHEDULE

Fall

ADC 112	Construction Materials & Detailing: Principles	45 hrs	3 cr
ENGL 102	English Composition II	45 hrs	3 cr

Spring

ADC 286	Building Rehabilitation and Energy Retrofit	45 hrs	3 cr
ADC 161	Energy Auditing, Remediation and Monitoring	60 hrs	3 cr

Summer

ADC 146	Construction Supervision and Business Practices	60 hrs	3 cr
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TOTAL **255 hrs** **15cr**

WORK PROCESSES SCHEDULE

Diagnostics	640 hrs
Mechanical Systems	600 hrs
Client Education	120 hrs
Energy Analysis	296 hrs
Principles of Hazardous Materials	200 hrs
Reports	144 hrs
TOTAL	2000 hrs



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BEA Apprenticeship Program

At the conclusion of this one year apprenticeship, successful participants will earn:

- Journeyman credential as a Building Energy Analyst*
- Academic Certificate in Building Science – Energy Conservation from Community College of Philadelphia
- Building Performance Institute (BPI) certification at the Building Analyst and Envelope levels

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Associate of Applied Science Degree Program

COURSEWORK SCHEDULE to complete the A.A.S. Degree in ENERGY CONSERVATION

Fall

ADC 212	Construction Materials & Detailing II	3 cr
ADC 163	CAD Building Documentation	3 cr
ADC 247	Construction Business Practices & Supervision	3 cr
EASC 111	Environmental Conservation	3 cr
	Humanities Elective	3 cr

Spring

ADC 237	Construction Cost Estimating II: Cost/Benefit Analysis	3 cr
ADC 261	Construction Management & Scheduling	3 cr
ADC 254	Environmental Systems II – LEED GA Prep	3 cr
ADC 246	Contracts and Specifications	3 cr
	Science Elective	3 cr
	TOTAL	30 cr

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Associate of Applied Science Degree Program

At the conclusion of this one year (full time) or two year (part-time) Program graduates will earn:

- Associate of Applied Science Degree in Energy Conservation from Community College of Philadelphia
- Certification as a LEED Green Associate
- Ability to transfer to Temple University's or Drexel University's Construction Management Bachelor's Degree Program

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Potential jobs

without a degree

Entry level Installer Crew Chief, Auditor, Contractor,
Start-up Business, Building Maintenance

with a certificate or degree

Architect, HVAC, Building Science, Energy Engineer

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ECA's Students

Our Commitment to Diversity

ECA is committed to educate a diverse population that reflects the nation and to break the barriers of education and work silos

Students include:

- Underemployed Worker
- Unemployed Workers
- Veterans
- Incumbent Workers
- Entrepreneurs
- Architects, contractors
- Professionals



Future of ECA and CCP Partnership

- Apprenticeship Program
 - Currently being replicated in Montgomery county and New Jersey
- Access to training facility for CCP students
- A la carte courses within the Apprenticeship program
- Incorporate use of the Training Center
- Develop additional Energy Conservation and Building Science programs

Green Jobs Training Center

Partnerships

- BASF, Dow, St. Gobain
- NCAF/ExxonMobil
- U.S. Department of Labor
- U.S. Department of Energy
- PA Department of Labor and Industry
- PA Department of Community and Economic Development
- Cities of Philadelphia, Camden, Baltimore, Newark
- Conference of Mayor's/ Wal-Mart
- School District of Philadelphia
- National Forest Service
- Contractors, Architects
- Community Based Organizations

