

*Hudson Valley Community College's
Workforce Development Institute:
The Center for Energy Efficiency and Building Science*

*Building a Green Collar Workforce for
New York's ENERGY STAR® Programs
ACEEE Conference
March 17, 2010*



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Today's Outline

- Provide brief history of funding sources and training development
- Review current course offerings
- Coming attractions



CEEBS Funding Sources

- New York State Energy Research and Development Authority (NYSERDA)
- Long Island Power Authority (LIPA)
- US Department of Labor: Community Based Job Training (CBJT) Grant



New York's Home Performance with ENERGY STAR[®]

- Whole-house approach to energy conservation
- Need market (homeowners)
- Need qualified contractors



Training History

- Conferences and lectures
- 2000: Course development begins
- 2001-2006: OCM BOCES develops building science curriculum
 - Training delivered across state with centrally located training staff
- 2007-Present: Hudson Valley Community College



Hudson Valley Community College 2007-Present

- Creates Center for Energy Efficiency and Building Science (CEEBS)
- Creates Learning Centers across NY State
- Develops new instructors at Learning Centers



CEEBS

12 Current Sites:

- Association for Energy Affordability (NYC)
- Broome Community College (Binghamton)
- Bronx Community College (Bronx)
- Erie Community College (Buffalo)
- Fulton-Montgomery Community College (Johnstown)
- Hudson Valley Community College (Troy)
- Onondaga Community College (Syracuse/MF)
- Onondaga-Cortland-Madison BOCES (Syracuse/SF)
- SUNY Canton (North Country)
- Westchester Community College (Downstate)
- Monroe Community College (Rochester)
- SUNY Ulster (Mid-Hudson Region)



Best Practices Identified
Standards Set



Certification of
Competency

Curriculum Developed
Training Provided



Contractor Training and Accreditation - Build Infrastructure

1. Classroom and Field Training
2. Testing and Certification
3. Financial assistance is available to reduce Contractor's costs of training, certification and accreditation



Building Science Curricula


- Single-family
 - Basics of Building Science*
 - Building Analyst
 - Envelope Professional**
 - Basics of Air Sealing and Insulation*
 - Heating Professional
 - Cooling Professional
 - Home Energy Rating System (HERS) Rater
 - Home Performance Sales & Marketing
- Multifamily
 - Multifamily Building Analyst
 - Multifamily Building Operator
 - Hydronic Heating Design Specialist (pilot)

*Denotes new curriculum

** In revision



Building Performance Training Courses Certificate Program

- **Building Analyst – 36 Instructional Hours**
A “Whole House” Performance-Based Approach
24 Hours – Classroom Instruction
12 Hours – Field Training
 - **Envelope Professional – 30 Instructional Hours**
Advanced Building Envelope Diagnostic,
Evaluation, and Upgrade Skills
12 Hours – Classroom Instruction
18 Hours – Field Training
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Building Performance Training Courses Certificate Program

- **Heating Professional – 35 Instructional Hours**
Advanced Heating System Diagnostic,
Evaluation, and Repair Skills
14 Hours – Classroom Instruction
21 Hours – Field Training
- **Cooling Professional – 16 Instructional Hours**
Designed for Experienced Heating Contractors.
This course is also known as Air Conditioning
and Heat Pump Specialist



Building Performance Training Courses Certificate Program

- These courses may be taken individually for BPI Certification or as the entire curriculum towards a College Certificate (In Process for Fall 2010)
- Integration of Building Analyst into High School Construction Technology curricula is in process

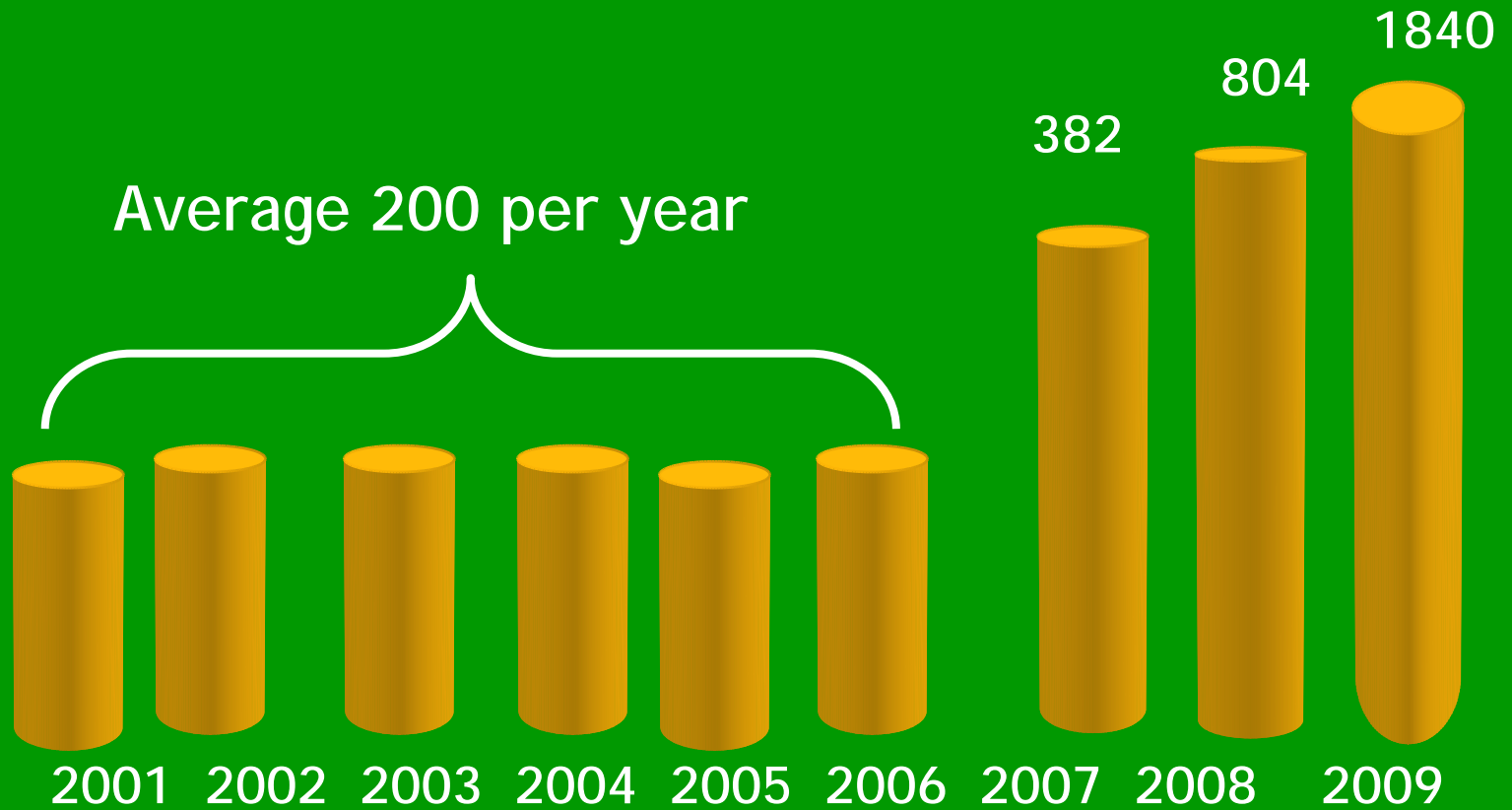


New Building Science Curricula

- Basics of Building Science
 - Offered both online and in classroom format
 - Equivalent to 15 instructional hours
 - Preparatory for Building Analyst training
- Basics of Air Sealing and Insulation
 - Offered in both classroom/field and classroom/lab format
 - Requires basic knowledge of building science




Students Trained Annually



2007-2008-2009 Enrollment

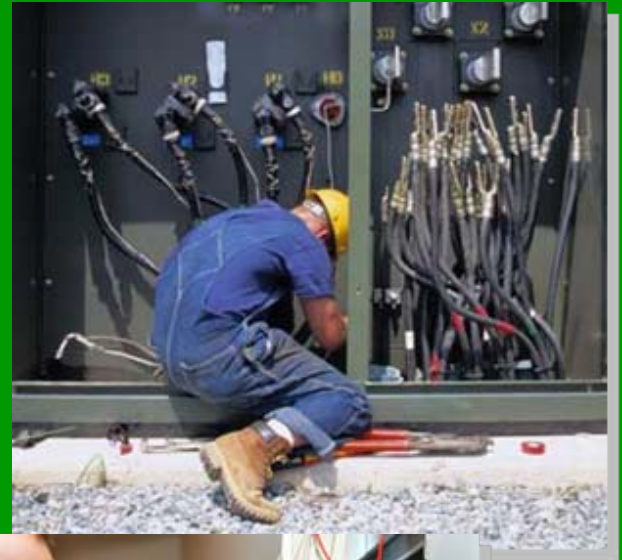
Course	Number Enrolled 2007	Number Enrolled 2008	Number Enrolled 2009
Building Analyst	217	449	947
Envelope Professional	55	128	495
Heating Professional	39	37	133
Cooling Professional	17	8	67
HERS Rater	11	15	49
Multifamily BA	43	131	126
Sales and Marketing	0	21	0
SPE Heating Professional	0	15	6
Pilot-Basic Air Sealing& Ins			6
Pilot-Building Science-Online			11
Total Enrollment	382	804	1840

Community-Based Job Training Grant

- Awarded \$1.97 million (3 year grant) – Feb. 2009
 - To Create a Workforce for “Green Economy Jobs”
 - Focus is on the Emerging, Underemployed, Unemployed Workers
 - Provides for Skills Training in Energy Efficiency
 - Results in Industry Certifications and/or Associate Degree
 - Grant Outcomes: 3,700 Participants Served
3,400 Receiving Certificate or Degree
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Coming Attractions

- BPI Heating Professional training for HVAC high school programs
- For-credit classes at the post-secondary level
- "Single Point of Entry" certification classes
- Building Science Online Training
- Basic Air Sealing and Insulation Technician training
- Re-entry training (CBJT)
- Additional New Courses (Fall 2010)



Training Information and Schedule

HVCC: (518) 629-4111

ceebshvcc.edu

www.hvcc.edu/ceebshvcc

