

CBE: One-Stop Employment System  
&  
American Recovery and Reinvestment  
Act of 2009  
“Recovery Act”

# Center for Business Excellence

- Oversees the One-Stop Employment System in Flagler and Volusia Counties
  - 3 One-Stop Employment Centers
  - 7 Mini Career Links
- Annually Serves
  - over 20,000 job seekers
  - over 1,000 business

# Recovery Act Allocations

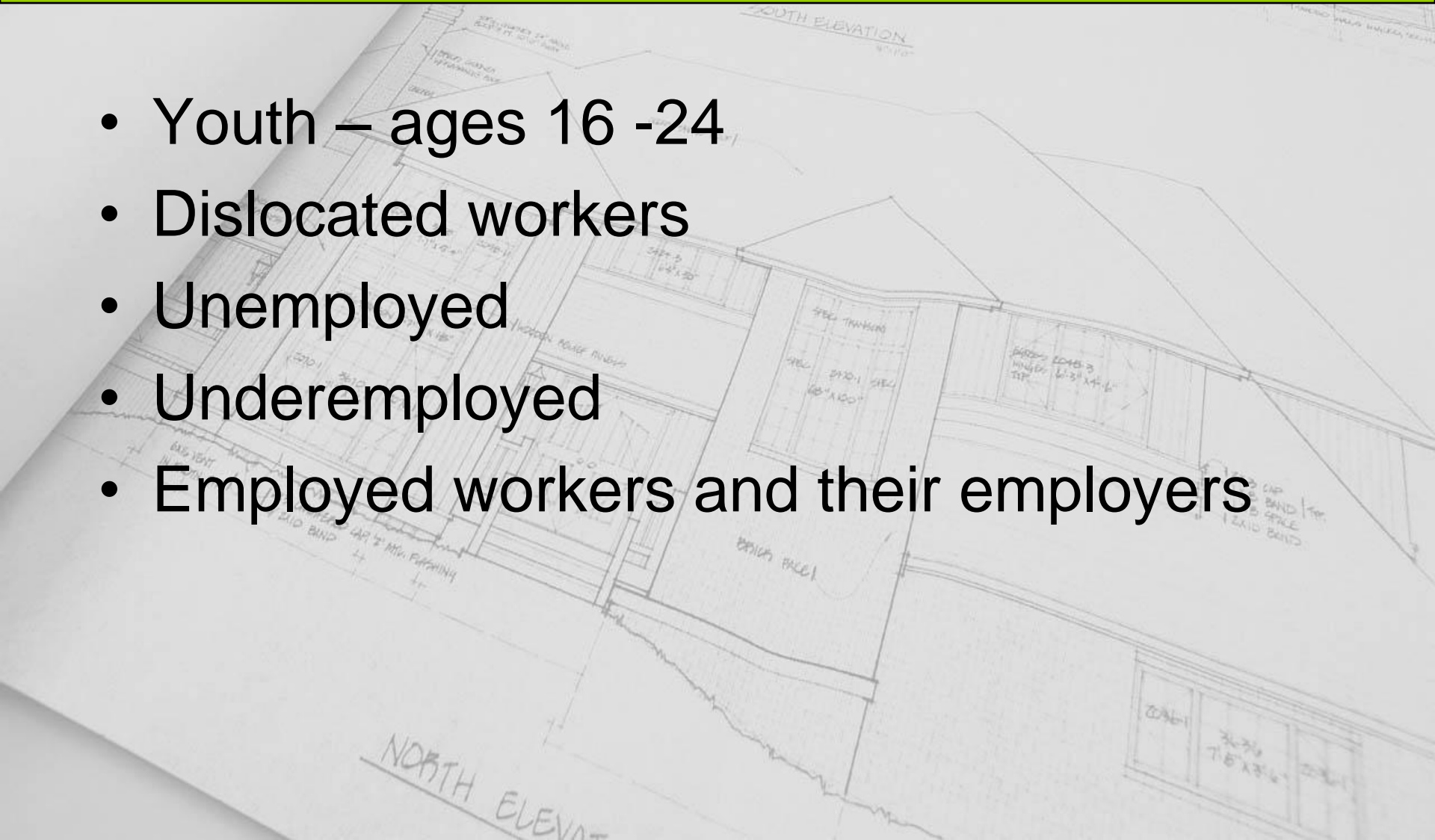
- **To the state of Florida:**
  - \$43 million for youth services, including summer employment
  - \$19 million in adult workforce services, such as job placement and training programs
  - \$81 million in workforce services for dislocated workers, including those who have been laid off or whose employer has closed or gone out of business
  - \$22 million in employment services at the state's One-Stop Career Centers
    - **\$4.8 Million to CBE**

# Key features of Recovery Act

- Needs-related payments
- Provision of reemployment services
- Green jobs
- Connections to other federal Recovery Act investments

# Who will benefit?

- Youth – ages 16 -24
- Dislocated workers
- Unemployed
- Underemployed
- Employed workers and their employers

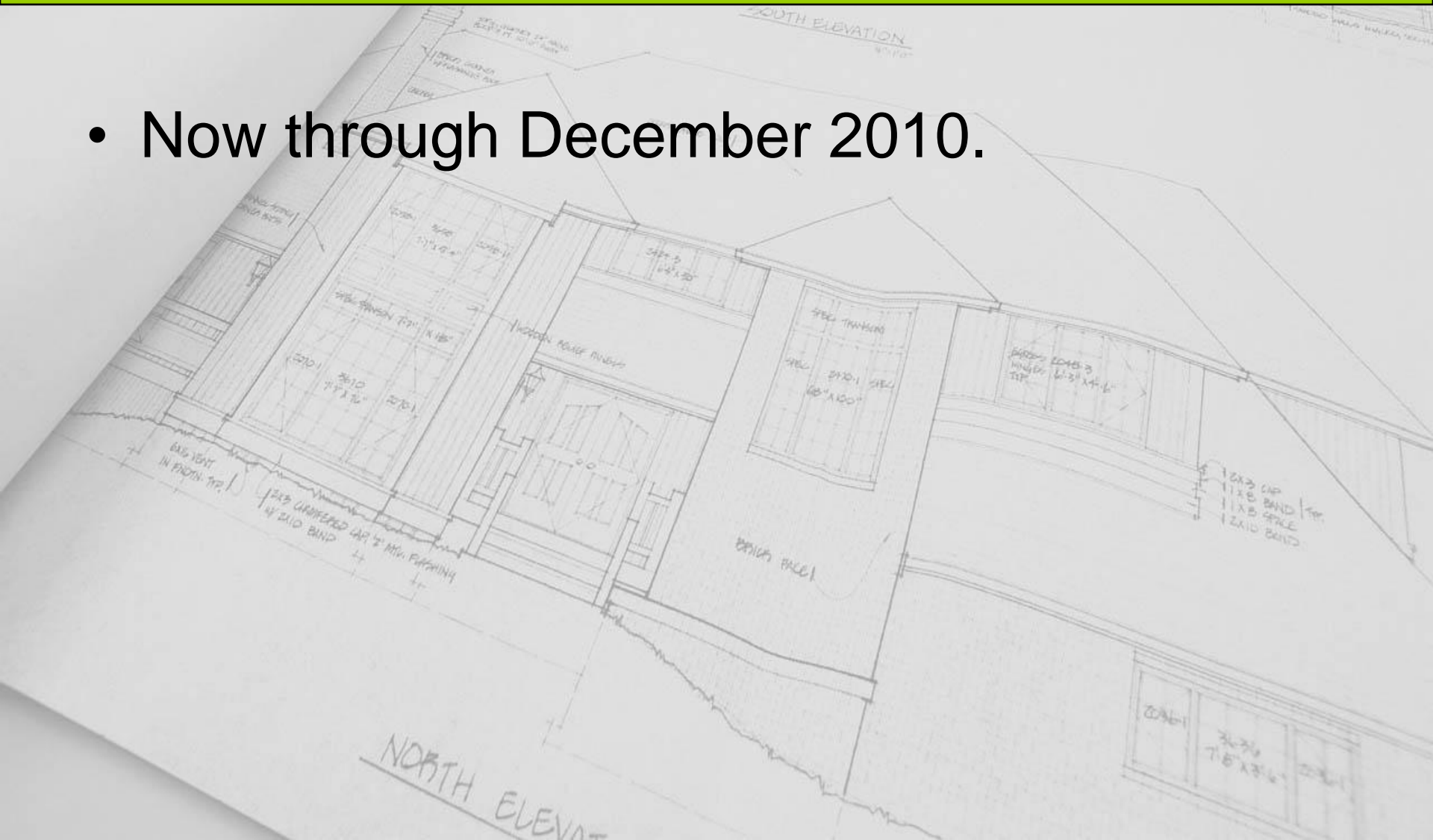


# Services CBE will provide:

- Classroom Training
- On-the-Job Training
- Training of Employed Workers
- Supportive services and needs-related payments
- Support of “Green” job-related opportunities
- Paid Summer Work Experience for Youth

# Planned Time-Line

- Now through December 2010.





**Volusia and Flagler  
Homebuilders Association**

Review of Green Energy Courses  
Potentially Available



# Designing Building Envelopes to Control Air and Moisture in High Performance Green Buildings

- Typical course provides a balance of lecture, live model demonstrations and class exercises so students will understand building envelope characteristics controlling heat and moisture transport.
- Participants become familiar with the four types of water movement – bulk, capillary, vapor diffusion, and air transport in hot and humid climates.
- Participants learn the relevance of material properties to energy efficiency, moisture accumulation, and durability, within the envelope assemblies.
- Length – Approximately 7 hours.

# Designing and Maintaining Building Air Flows in High Performance Green Buildings

- Air flow and pressure problems may silently undermine green goals of maintaining healthy, energy efficient and, durable buildings.
- Typical courses use case studies and research by instructors with first-hand experience to help students understand how the four primary forms of uncontrolled air flow are likely to undermine LEED certified buildings.
- Length – Approximately 7 hours.

# Designing and Maintaining Building HVAC Systems in High Performance Green Buildings

- Typical courses examine cooling system characteristics, advanced dehumidification systems and ventilation control strategies.
- HVAC systems can be an important part of conserving energy, maintaining comfort, and controlling humidity in green buildings.
- Case studies are used that highlight re-commissioning measures that result in significant energy savings.
- Some courses are designed to accommodate those not familiar with HVAC , but want to learn more
- Others have additional detailed information about advanced systems that would also benefit those more experienced.
- Length – Approximately 7 hours.

# Energy Analysis for Obtaining Tax Credits & Energy-Efficient Mortgages

As part of the 2005 Energy Bill passed by Congress, new tax credits for builders, design professionals, businesses and homeowners were passed. Among them are:

- Tax credits for *residential solar photovoltaic and hot water heating systems*.
- Tax deductions for *highly efficient commercial buildings*.
- Tax credits for *highly-efficient new homes*.
- Tax credits for *improvements to existing homes* including *high-efficiency air conditioners and equipment*.
- Tax credits for *residential fuel cell systems*.
- Tax credits for *fuel cell and microturbines* used in a business.
- Learn who is eligible to receive credits and how to determine the level of credit available.

# Energy Gauge® Commercial Rater Training

- This course is designed to teach the methodology of commercial energy ratings in order to accurately assess commercial buildings.
- After completion of this course a challenge test is administered to the participant in order to certify them as a commercial energy rater.
- A certified individual can then perform commercial energy calculations on the same level as a licensed HVAC contractor.
- Length – Approximately One Day

# Commercial Energy Code and Green Building Modeling Using EnergyGauge

- This course teaches participants how to use software for energy code compliance for Florida and other states that use ASHRAE 90.1.
- Students learn how to generate ASHRAE 90.1 ratings, evaluate federal tax deductions for energy-efficient buildings and calculate LEED credits, including easy on-line reporting feature.
- Designed for first time and experienced users, students can work alone or in teams to input data and generate output reports which illustrates energy impacts.
- Length – Approximately 7 Hours

# Review of Green Energy Courses Potentially Available

## Residential Building Courses



# EnergyGauge® - Florida's Residential Rating Program

- Course leads to certification as a rater by teaching individuals to conduct complete and accurate residential energy ratings. Learn principles of energy and heat flow, energy consumption, energy systems interaction, and how to perform a home rating.

# EnergyGauge® FlaRes Pro Hands-On Training

- Maximum use with minimum effort from Florida's Code and Rating Software.
- For new or experienced users, students will be instructed in the use of EnergyGauge, energy code compliance, system sizing, optimization, and improvement analysis.
- 4 Hours, CILB#006825

# Florida Green Home Designation Certification Course

- Provide buyers and homebuilders more than just energy efficiency by becoming a certifier for the new green home designation.
- Instruction in what it takes to qualify a home for the building energy, appliance energy, water efficiency, site, health, materials, disaster mitigation and general categories for this standard.
- 6 Hours, CILB#0006827

# LEED® for Homes for Field Agents

- This course is designed to take current Florida green home certifying agents, Florida energy raters and LEED professionals through the LEED for Homes program.
- Results in eligibility for certification as a field rater for homes through the Florida Solar Energy Center, a USGBC designated provider serving the Florida region.
- 6 Hours, CILB#0010550

# Home Energy Rater Training

- A home energy rating is a delivery system for energy efficiency, designed to benefit home owners and purchasers by delivering more home for less money.
- Home energy ratings provide a standardized measure of energy costs and efficiency. Ratings in Florida can only be conducted by state-certified Raters using a set of nationally accredited analysis procedures and verified software tools.
- A series of training courses will enable an individual to become a Certified Home Energy Rater in the state of Florida.

# Purpose of Certified Rater Training Courses

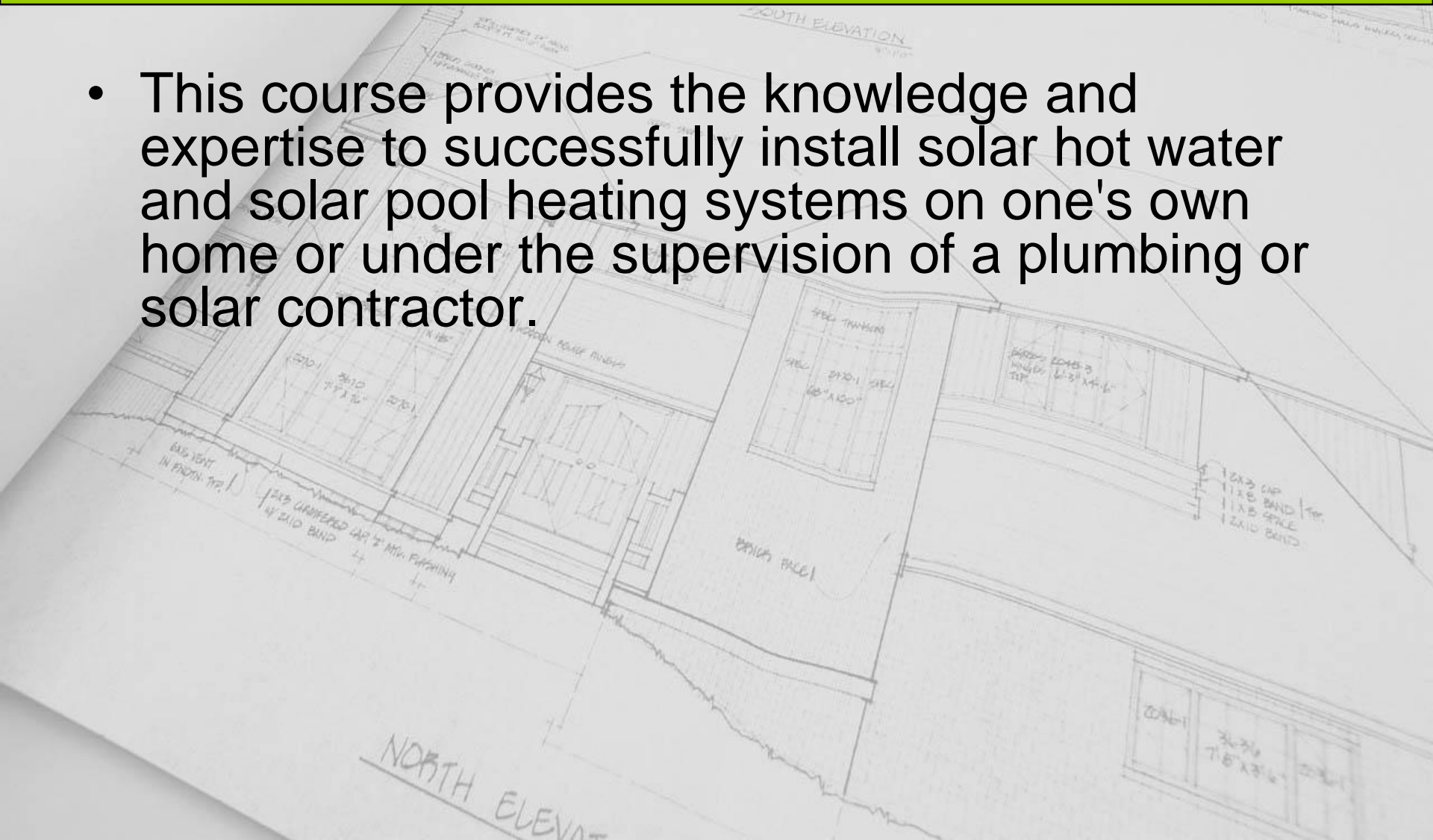
- The purpose of the Act is to provide home buyers with a marketplace yardstick measuring the benefits of energy-efficient improvements.
- The rating system provides specific information on how much energy the home is expected to use.
- The rating system is built upon the platform provided by the statewide energy code.
- The Ratings provide overall estimates for the home's annual energy cost in dollars and energy, and a rating for the home in relation to the most- and least-efficient homes of its size in the state.
- Ratings can be conducted only by State-Certified Raters.

# Certified Rater Training

- Courses which provide the training and testing are required to become a Certified Class 3, 2 or 1 residential Rater.
- *Class 3 Raters* can rate new buildings only.
- *Class 2 Raters* can rate new or existing buildings using site audit data.
- *Class 1 Raters* can rate new or existing buildings using both site data and actual field performance tests of the building's energy efficiency.

# Solar Hot Water Technician

- This course provides the knowledge and expertise to successfully install solar hot water and solar pool heating systems on one's own home or under the supervision of a plumbing or solar contractor.



# Certified Solar Contractor License

- The Certified Solar Contractor license (CV) covers residential and commercial solar water heating, solar pool heating and photovoltaic (solar electric, or PV) systems.
- This course is for contractors preparing for the state licensing exam.
- The CV license also provides credentials for those selling solar systems.

# Entry Level Energy Auditor and Weatherization Technician

- This emphasizes green construction jobs and careers in the Building Retrofit sector.
- Upon completion of training, energy auditors will be able to assist local companies and nonprofit agencies performing energy audits and retrofits by teaching energy conservation and performing simple energy-efficiency repairs such as caulking and weather stripping. [A Retrofit Technician would do more advanced repairs and upgrades.]

# Solar PV Installation Technician

- This course provides the knowledge and expertise to successfully install solar PV systems under the supervision of a Electrical Contractor or Solar Contractor.

# Advanced Energy Auditor

- Upon completion of the basic Energy Auditor Certificated Program and after a minimum of 250 hours of work experience as an Energy Auditor, a individual would be eligible to enroll in the Advanced Energy Auditor Certificated Program.
- The Advanced Program would go into more technical training such as using duct blasters and infrared scanners, and performing energy analysis.

The background of the slide features architectural blueprints. The top portion is a dark blue overlay with white lines and text, including the words 'FLOOR' and 'FIRST FLOOR'. Below this is a horizontal green line. The bottom portion shows a detailed architectural drawing of a building's north elevation, with various structural lines, windows, and handwritten notes in pencil or light ink. The text 'NORTH ELEVATION' is visible at the bottom of the drawing.

# Crew Chief

- The Crew Chief Training Certificated Program in the field of renewable and sustainable energy efficiency technologies will provide a strong green renovation component for trades people with a background in residential construction.
- Graduates will be trained to run crews working on energy retrofit projects.

# Florida Incentives for Renewables and Efficiency

Due to the large volume of rebate applications received the budget approved for FY2008-2009 was exhausted – awaiting reauthorization for 2009/10.

- **Eligible Renewable/Other Technologies:** Solar Water Heat, Photovoltaics, Solar Pool Heating
- **Applicable Sectors:** Commercial, Residential, Nonprofit, Schools, Local Government, State Government, Fed. Government, Multi-Family Residential
- **Institutional Incentive Amount:** PV: \$4/watt DC  
Solar Water Heaters: Residential - \$500; Non-residential & Multi-family - \$15 per 1,000 BTU/day  
Solar Pool Heaters: \$100
- **Maximum Incentive:** PV: Residential - \$20,000; Non-residential - \$100,000  
Solar Water Heaters: Residential - \$500; Non-residential & Multi-family - \$5,000  
Solar Pool Heaters: \$100
- **Eligible System Size:** PV: 2 kW and larger  
Solar water heaters must provide at least 50% of a building's hot water consumption
- **Equipment Requirements:** All solar energy systems sold in Florida required by Florida law (FS 377.705) to be approved by the [Florida Solar Energy Center](#)
- **Installation Requirements:** PV: Must be installed by a licensed master electrician or state-licensed electrical or solar contractor  
Solar Water and Pool Heaters: Must be installed by a state-licensed solar or plumbing contractor or a roofing contractor installing standing seam hybrid thermal roofs
- **State Program Budget:** \$2.5M for FY 2006-2007  
\$3.5M for FY 2007-2008  
\$5M for FY 2008-2009
- **Funding Source Expiration Date:** 6/20/2010