



# Earn a living. Make a difference.

Train for a rewarding career in solar energy marketing or installation—or upgrade your skills as a construction worker or licensed electrician.

According to the Connecticut Clean Energy Fund, the number of solar installation companies in Connecticut has doubled in the last two years, and the need for solar photovoltaic (PV) professionals is expected to grow as more businesses and homeowners choose clean, renewable energy sources to heat and power their homes and businesses.

Classes in **Solar PV Installation Assisting** and **Solar PV Technical Sales** are free for qualified students. In-class and hands-on training (44 hours total) will take place over 2-3 weeks in September. Classes are offered at the following convenient locations:

- Gateway Community College (North Haven)
- Middlesex Community College (Middletown)
- Naugatuck Valley Community College (Waterbury)

These classes give you the skills recognized by the North American Board of Certified Energy Practitioners, the gold standard in renewable energy careers.

**Classes start in September and are free for qualified students. For eligibility and registration information, call Deb Presbie at (860) 244-1932 or email [deb.presbie@cbia.com](mailto:deb.presbie@cbia.com).**



This program is offered by the Connecticut Business and Industry Association (CBIA) and Connecticut Community Colleges as part of the TANF (Temporary Assistance for Needy Families) program, funded by the American Recovery and Reinvestment Act of 2009. Matching funds are provided by the Connecticut Clean Energy Fund.

## *Solar Photovoltaic (PV) Course Descriptions*

### **TANF-Eligible Individuals Only**

The **Solar PV Entry Level Program** is designed for those individuals wanting to get into the solar field. This course combines 44 hours of in-class and hands-on training in the fundamental principles of application, design, installation and operation of grid-tied and stand-alone solar photovoltaic (PV) systems. Four hours of math review are included.

Course learning objectives focus on ten skill sets recommended by the North American Board of Certified Energy Practitioners (NABCEP):

1. PV Markets and Applications
2. Safety Basics
3. Electricity Basics
4. Solar Energy Fundamentals
5. PV Module Fundamentals
6. Systems Components
7. PV System Sizing Principles
8. PV System Electrical Design
9. PV System Mechanical Design
10. Performance Analysis, Maintenance and Troubleshooting

The NABCEP Entry Level Exam will be administered free of charge to participants who successfully complete the classroom assessment. If you know how to use hand and power tools, are able to work on a rooftop, and successfully pass this exam, you may be hired as an entry-level worker supervised by a fully certified installer.

For successful completion of this course, 100% attendance is required.

Dates and Locations:

- Naugatuck Valley Community College (Waterbury) - Registration closed
- Middlesex Community College (Middletown), 7 sessions, 9/20, 9/22, 9/24, 9/27, 9/29, 9/30, 10/1, 9 AM to 4 PM, room 612 Chapman Hall - Still accepting applications
- Gateway Community College (North Haven) - Registration closed

The **Solar PV Technical Sales** course is designed for sales professionals or individuals seeking to work in photovoltaic technical sales. PV technical sales professionals analyze customer needs and develop proposals, based on site analyses, that include a conceptual design, financial analysis, and performance projections for the system. This 44-hour course, which includes four hours of math review, provides the knowledge and skills needed to analyze customer electric bills, perform site assessments, identify zoning and related issues, manage customer expectations, inspect electrical service at the site, identify location

for PV system components, assess mounting locations, perform shade analyses, select appropriate equipment, plan system layouts, explain costs and net savings, evaluate financing options, describe environmental impact, and prepare proposals.

Individuals who successfully complete the classroom assessment and meet additional NABCEP requirements will be eligible to take the new NABCEP PV Technical Sales exam offered in March 2011. Individuals not currently working in a solar career should also take the Solar PV Entry Level Program if planning to take the NABCEP PV Technical Sales exam.

For successful completion of this course, 100% attendance is required.

Dates and Locations:

- Naugatuck Valley Community College (Waterbury) - Registration closed
- Gateway Community College (North Haven) - Registration closed

*This program is offered by the Connecticut Business and Industry Association (CBIA) and the Connecticut Community Colleges as part of the Temporary Assistance for Needy Families (TANF) program, funded by the American Recovery and Reinvestment Act of 2009 (ARRA) TANF Emergency Contingency Fund. Matching funds are provided by the Connecticut Clean Energy Fund. All instructional materials, textbooks, NABCEP application fees and NABCEP Entry Level Exams will be provided at no cost to eligible participants.*

# Free Solar PV Training Programs for TANF-eligible Participants

## Eligibility and Application Guidelines

### Am I eligible?

You are eligible if you meet **all** the following criteria:

- Have dependent children who are either less than 18 years of age, 18 years of age and attending secondary school or its equivalent, or under age 24 and attending a post secondary school and considered a dependent student through the Free Application for Federal Student Aid (FAFSA) process. Applicants under age 25 who are participating in a TANF job training program are not required to have dependent children.
- Meet family income guidelines as defined on the Connecticut TANF ECF Intake Application form W-1437
- Are a United States citizen, a permanent resident with documented residency of at least five years, or a qualified non-resident
- Are at least 18 years of age
- Complete a mandatory math skill assessment. Testing will be conducted at the community college at which you are registering.

### How do I apply?

1. Complete the following **registration forms (available at [www.cbia.com/edf](http://www.cbia.com/edf))**:

- Connecticut TANF ECF Intake Application, form W-1437
- CBIA TANF Intake Application Form (Page 2)
- Connecticut Community Colleges Registration Form, Semester 110308 (Fall 2010)
- Consent for the Disclosure of Education Records

2. Schedule an appointment for assessment testing. Contact the colleges below for more information, or to find out if the registration deadline has been extended:

- **Gateway Community College:** Contact Dr. David Cooper at 203-285-2323, or by email at [dcooper@gwcc.commnet.edu](mailto:dcooper@gwcc.commnet.edu).  
*For maps/directions, go to <http://www.gwcc.commnet.edu/contact.aspx?id=175>*
- **Middlesex Community College:** Contact Ian Canning at 860-343-5710, or by email at [icanning@mxcc.commnet.edu](mailto:icanning@mxcc.commnet.edu).  
*For maps/directions, go to [http://www.mxcc.commnet.edu/Content/Campus\\_Maps.asp](http://www.mxcc.commnet.edu/Content/Campus_Maps.asp)*
- **Naugatuck Valley Community College:** Contact Ann Travers at 203-575-8197, or by email at [atravers@nvcc.commnet.edu](mailto:atravers@nvcc.commnet.edu).  
*For maps/directions, go to <http://www.nvcc.commnet.edu/About-NVCC/Maps-Directions>*

3. Bring all completed registration forms (with a copy of INS card, if applicable) to your testing appointment.

# Connecticut TANF ECF Intake Application

Organization Name: CBIA

Program Name: Solar PV training

## 1. Client Information

Name: \_\_\_\_\_  
(first) (middle) (last)

Date of Birth: \_\_\_\_\_  
(mm/dd/yyyy)

Address (P.O. Box is not acceptable):  
\_\_\_\_\_  
(number and street) (apt. number)  
\_\_\_\_\_  
(city) (state) (zip code)

Gender:  M  F  
Social Security Number: \_\_\_\_\_  
INS Number: \_\_\_\_\_  
(if applicable)

## 2. Eligibility Criteria

### Income:

- Current Recipient of TFA (Temporary Family Assistance)
- Current Recipient of SNAP (Food Stamps)
- Current Recipient of SAGA (State Administered General Assistance)
- Current Recipient of WIC (Women, Infants, and Children)
- Family income less than 75% of the State Median Income (SMI) Level

Family Income: \$ \_\_\_\_\_

Family Size: \_\_\_\_\_

Figures below represent 75% of the SMI for period July 1, 2010 through June 30, 2011.

- Family of 1 - Level less than \$39,640.77
- Family of 2 - Level less than \$51,837.93
- Family of 3 - Level less than \$64,035.09
- Family of 4 - Level less than \$76,232.25
- Family of 5 - Level less than \$88,429.41
- Family of 6 - Level less than \$100,626.57
- Family of 7 - Level less than \$102,913.54
- Family size over 7 - add \$2286.97 per family member

### Household Composition:

- Custodial Parent (or pregnant) or other caretaker of dependent children
- Non-Custodial Parent (with children residing in Connecticut)
- Child under 19 yrs. old and lives with parent or relative

### Citizenship Status:

- United States Citizen
- Permanent Resident\* \_\_\_\_\_  
(month/year became legal resident)
- Refugee, Asylee, or Deportation withheld
- Not a United States Citizen or Eligible non-citizen

\* Attach copy of INS card.

## 3. Signatures

This information provided above is true and correct to the best of my knowledge.

\_\_\_\_\_  
Applicant Signature Date

\_\_\_\_\_  
Parent Guardian name (if applicant is under 16)

\_\_\_\_\_  
Parent or Guardian Signature

## 4. Tracking Information (for Office Use Only)

Applicant determined to be:  TANF Eligible  TANF Ineligible  Undetermined

Was Applicant selected to participate?  Yes  No

\_\_\_\_\_  
Official Signature Date

**CBIA TANF Intake Application Form (Page 2)**  
**Solar Photovoltaic Entry Level and Technical Sales Training**

**Family Composition: List each family member as defined in CTDOL AP 00-08. (Add new page if needed.)**

Family Member	Name	Relationship	DOB	Age	Income Source(s)	Annualized Income (from Part II)
1		Self/Applicant				
2						
3						
4						
5						
6						

Staff Use Only	Family Size:	Income Limit:	Assessment Score:
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**Background**

Do you have a felony conviction?  Yes  No

**Highest level of education achieved**

**Please check one:**

Some high school  GED  High school graduate  Some college  College graduate

**Current Job Title:** \_\_\_\_\_ **Employer:** \_\_\_\_\_

**Do you have any prior solar PV experience? (not required for participation)**  Yes  No

I attest that to the best of my knowledge the information above is true and correct.

\_\_\_\_\_  
Applicant Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Staff Signature

\_\_\_\_\_  
Date

**Course**

**Please check one:**  Solar PV Entry Level  Solar PV Technical Sales

**Location**

**Please check one:**

- Gateway Community College (North Haven)
- Middlesex Community College (Middletown)
- Naugatuck Valley Community College (Waterbury)

Start date: \_\_\_\_\_

Start date: \_\_\_\_\_

Start date: \_\_\_\_\_

Applicants are required to pass a math assessment prior to acceptance into the program. Colleges will conduct mandatory assessments during the week of August 23. For a testing appointment at Gateway CC, contact Dr. David Cooper, 203-285-2323; at Middlesex CC, contact Ian Canning, 860-343-5710; at Naugatuck Valley CC, contact Ann Travers, 203-575-8197. Bring completed TANF Intake Application forms (with a copy of INS card if applicable), along with the Connecticut Community College Registration and Consent for the Disclosure of Education Records forms to your testing appointment.

# Connecticut Community Colleges

## Consent for the Disclosure of Education Records

Please type or print.

I, \_\_\_\_\_, hereby authorize  
\_\_\_\_\_ Community College  
and its employees to release information on the following:

- √ Attendance
- √ Student Conduct and Safety Issues
- √ Student Performance
- √ Certificate of Completion or Notice of Non-completion of Courses

**For:**

- √ **Semester** 110308 (Fall 2010)
- √ **Course:** Check one or both
  - Solar PV Entry Level
  - Solar PV Technical Sales

**to the following individuals and organization:**

- √ **Connecticut Community College System Office**  
Rochelle Jewell, Director of Grant Initiatives and Special Projects  
61 Woodland Street, Hartford, CT  
rjewell@commnet.edu  
203-244-7746
- √ **Connecticut Business & Industry Association**  
Deb Presbie  
350 Church Street  
Hartford CT  
deb.presbie@cbia.com  
860-244-1932

Disclosure is made for the following purpose(s):

Verification of my attendance, completion of the course(s) enrolled, reporting of my conduct and for such other purposes as may be necessary or desirable.

I, \_\_\_\_\_, acknowledge and authorize that photocopies and facsimiles of the original of this Consent for the Disclosure of Education Records, including my signature, shall be as valid as the original.

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**Signature of Student**

**Date**

**Connecticut Community Colleges Registration Form  
Semester 110308 (Fall 2010)**

**Check the community college at which you are registering:**

Gateway     Middlesex     Naugatuck Valley

**Check course(s) for which you are registering.**

**Solar PV Entry**

To be completed by college: CRN: \_\_\_\_\_ Day(s): \_\_\_\_\_ Dates: \_\_\_\_\_

**Solar PV Technical Sales**

To be completed by college: CRN: \_\_\_\_\_ Day(s): \_\_\_\_\_ Dates: \_\_\_\_\_

**Please complete each field below. \* = Mandatory for registration.**

<b>Student ID Number</b>	
<b>Social Security Number *</b>	
<b>Name *</b>	
<b>Maiden Name *</b>	
<b>Street Address *</b>	
<b>City / State / Zip *</b>	
<b>Home Phone *</b>	
<b>Work Phone</b>	
<b>Cell Phone</b>	
<b>Email Address</b>	
<b>Date of Birth *</b>	
<b>Gender</b>	
<b>New address and/or phone?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>New Student?</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Are you a US Citizen? <input type="checkbox"/>Yes <input type="checkbox"/>No</b>	<b>If not, do you have a Green Card? <input type="checkbox"/>Yes <input type="checkbox"/>No</b>
<b>Ethnicity</b>	<b>Race</b>
<input type="checkbox"/> Hispanic/Latino	<input type="checkbox"/> White (10)
<input type="checkbox"/> Non-Hispanic/Non-Latino	<input type="checkbox"/> American Indian or Alaskan Native (50)
	<input type="checkbox"/> Asian (45)
	<input type="checkbox"/> Black or African American (20)
	<input type="checkbox"/> Native Hawaiian or Other Pacific Islander (80)
	<input type="checkbox"/> Other (90)
	<input type="checkbox"/> Choose not to respond (60)