

RENEWABLE ENERGY TECHNOLOGIES

DIPLOMA SERIES

About the Program

The award winning, ISPQ Accredited, Renewable Energy Technologies Diploma Series (RETDS) is a non-degree continuing-education training program that provides:

- technical theory and hands-on training based on NABCEP Task Analyses
- information on current policies, financial models and technologies
- a support network of experienced professionals

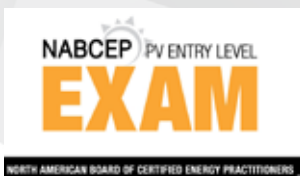
In addition, the program can help meet required certifications and continuing education credits for some professionals like licensed electrical contractors, registered architects, professional engineers, LEED APs and NABCEP-certified installers. We also provide the NABCEP PV Entry Level Exam and the NABCEP Solar Heating Entry Level Exam.

Currently, the program offers training in the following technologies: solar thermal, solar electric (photovoltaics/PV) and wind, and residential green building.

Brought to you by:



Recognitions and Accreditations



How do I complete the program?

The program allows you to build an interdisciplinary course that gives an in-depth understanding of renewable energy technologies. To earn the diploma, you are required to complete 120 contact hours, or three 40-hour workshops within three years. During your last workshop, you must submit a one page digital essay and do a short presentation on your future plans with the knowledge gained. A certificate of completion is given at the end of each weekly or stand-alone course.

Complete three of the five 40-hour RET workshops comprising the Renewable Energy Technologies Diploma Series listed here:

- REPV: Renewable Energy Generation with Photovoltaics
- REST: Renewable Energy Generation with Solar Thermal Systems
- REW: Renewable Energy Generation with Wind Energy Systems
- REPV-A: Advanced Design and Installation of PV Systems
- GB-Intro: Introduction to Designing and Building a Sustainable Home or Small Building (May 7-11 2012)



WORKSHOPS

REPV:

Renewable Energy Generation with Photovoltaics

This weeklong photovoltaics workshop is led by David Del Vecchio, one of only four ISPQ Certified Master Trainers/PV on the east coast.

The classroom lectures of the REPV workshop are dedicated to the technical aspect of photovoltaics, including system types, components, applications, and best practices for installation, maintenance, and troubleshooting. A hands-on day installing a fully integrated grid tied PV system pulls together the classroom knowledge and rounds out the five day workshop.



Five day PV Workshop covers:

- Basics of electricity
- Solar resource siting
- Electric load analysis
- Batteries, inverters, charge controllers, PV modules
- Basics of PV design and electric generation
- Sizing stand alone and grid tied systems
- Installation, maintenance and servicing techniques
- Hands-on assembly
- OPTIONAL: NABCEP PV Entry Level Exam

REST:

Renewable Energy Generation with Solar Thermal

- Permitting and licensing requirements for solar thermal systems
- Solar Hot Water (SHW) system components
- Mounting and roof penetrations, piping and flow rates
- Domestic SHW system sizing and economics
- Types of SHW installations and applications
- Hands-on installation of SHW systems

REW:

Renewable Energy Generation with Wind Energy

- Basics of electricity
- Examining and evaluating system components and types
- Siting systems, measuring wind and system outputs
- Incentives and economics
- Take-down, examine and re-install a small wind system

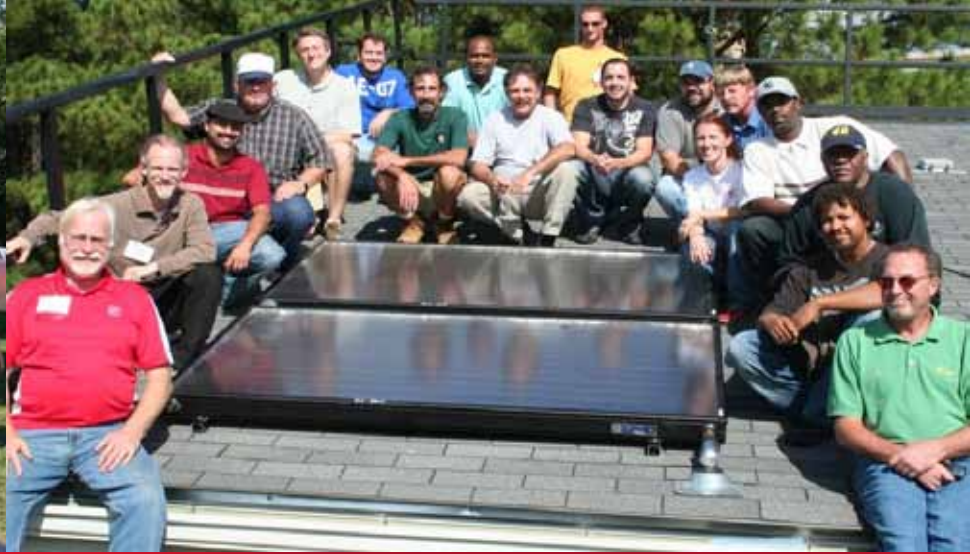
REPV-A:

Advanced Design and Installation of PV Systems

Pre-requisite: REPV or Certificate of Completion from an ISPQ Accredited or NABCEP-approved course on photovoltaics. Taught by ISPQ-Certified Master Instructor/PV David Del Vecchio and ISPQ-Certified Instructor/PV Rebekah Hren, the course covers in depth NEC® requirements, commercial PV system designs and commissioning.

TO REGISTER, or for more information about the agenda, instructors and logistics, go to:

<http://tinyurl.com/ncsc-training-programs>



LOGISTICS:

Location

Workshops will be held at either the Holiday Inn Express on Thistledown Drive or the Jane S. McKimmon Center and Solar Center Training Field. Please read your confirmation letter to verify the location of your scheduled workshop.

Schedule

Monday check-in: 8:00 - 8:30 a.m.
Class time: 8:30 a.m. - 5:30p.m.
Morning snacks and lunches are provided

Continuing Education Credits

24 credit hours for Electrical Contractors (PV and Wind)
35 credit hours for P.E.s, AIAs, and LEED APs
3.5 CEUs

Lodging

Lodging and evening meals are not included in registration fees. To find accommodations in the area, visit NC State University or the Solar Center websites. University Housing has affordable guest rooms at the Avent Ferry Complex. Visit www.ncsu.edu/housing/conferences/guests.php

If you are a person with disability...

...and desire any assistive devices, services or other accommodations, call (919) 515.2261 or email continuingeducation@ncsu.edu

Cancellation Policy

A \$50 fee will be charged for cancellations made within 10 business days of start date. No refunds will be given once classes have started.

Discounts

10% off for additional registrations from same company and for small business owners. Requires federal tax ID number

CLASS SCHEDULE FOR 2012:

Photovoltaics:

REPV:

January 30-February 3	March 19-23
May 7-11	July 9-13
September 17-21	November 12-16

REPV-A:

October 15-19

Solar Thermal:

April 9-13	August 6-10
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Wind:

September 17-21

GB-Intro:

May 7-11	October 29- Nov 2
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One-day Business of PV:

April 5	August 23
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REGISTER ONLINE:

<http://tinyurl.com/ncsc-training-programs>

REGISTRATION FEES

Weeklong workshops, except REPV-A
\$969.00 for NC residents
\$1,669 for non-NC residents

One-day Workshops
\$199.00 for NC residents
\$339 for non-NC residents



REGISTER NOW!

Renewable Energy Technologies

Diploma Series

Schedule of Workshops:

January - December 2012

<http://tinyurl.com/ncsc-training-programs>

REPV

January 30-Feb 3, March 19-23, May 7-11,
July 9-13, Sept 17-21, November 12-16

REPV-A:

October 15-19

REST:

April 9-13, August 6-10

REW:

September 17-21

GB-INTRO:

May 9 - 13, October 29-Nov 2



NORTH CAROLINA
Solar Center

Non-Profit Organization
U.S. Postage
PAID
NC State University

NC STATE UNIVERSITY

Campus Box 7401
Raleigh, NC 27695

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DIPLOMA SERIES

RESOURCES TO HELP YOU GET STARTED

Basics of Electricity:

science.howstuffworks.com/electricity.htm

North American Board of Certified Energy Practitioners:

www.nabcep.org

US Green Building Council:

www.usgbc.org

Institute of Sustainable Power Quality:

irecusa.org/irec-programs/ispq-training-accreditation

For more information about the program or go to:

<http://tinyurl.com/ncsc-training-programs>

Ways to Register

Online: <http://tinyurl.com/ncsc-training-programs>

By Phone: 919.515.2261

Questions?

For logistics, contact JoAnn Henry at jehenry@ncsu.edu or 919.513.4790

For course content, contact Maria O'Farrell at 919.538.8287 or maria_ofarrell@ncsu.edu.

Need Financial Assistance?

For more information, go to: <http://tinyurl.com/ncsc-training-programs> and click on the "Find resources for financial assistance" hyperlink