

# RENEWABLE ENERGY CLASSES

Energy Efficiency, Green Power Training, and Sustainability Education



**New York City College of Technology, Division of Continuing Education, 718 552-1170**

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## **INTRODUCTORY SOLAR ENERGY (PV)**

### **DESIGN AND INSTALLATION**

PVI 201

Mon - Fri, 6-9 pm, & two Saturdays, 9-3 pm,  
10/24 – 11/5

40 hours, \$650

This introductory solar energy course is based on the industry standard NABCEP Task Analysis test and certification. Upon completion the student will recognize and understand components of off-grid connected PV systems as well as the interlink between design criteria and the economic impact of various options. The course will be conducted in a working lab and students will learn to identify all basic mechanical and electrical components as well as how they are wired together and eventually to the user's property.

Prerequisite: Basic Mathematics.

## **RESIDENTIAL & RENEWABLE:**

### **ALTERNATIVE ENERGY TOOLKIT**

ECX 151

Wed, 6-9 pm, 11/23

3 hours, \$40

Are you ready to save money and lower your carbon footprint? Federal, state and local incentives for renewable energy lower your up-front costs and provide an excellent return on your investment. Bring a recent electric bill to this fact filled seminar and learn how to put a clean green power plant on your roof.

## **INTRODUCTION TO GREEN ROOFS AND LIVING WALLS**

HHT 060

Tues, 6 - 8 pm, 10/25 – 11/22

(Five 3-hour sessions & two 5-hour site visits)

Site visits: Saturdays, 11 am – 4 pm, 10/29 & 11/19

24 hours, \$240

This course is an introduction into green roof and living wall construction, installation, and maintenance. Topics include green roof benefits and incentives, planting types, waterproofing, roof membranes, drainage, horticulture, and irrigation. Two working site visits to local green roof projects are included.

## **WIND TURBINE INSTALLATION**

ECX 054

Thurs, 6 - 9 pm, 10/20 – 12/1 (No class on 11/24)

Site visits: Sat, 10 am – 1 pm, 11/5 & 11/19

24 Hours, \$280

This course offers an introduction to commercial and residential small wind power. Topics include wind speeds, site analysis, turbine types, installation methods, power output calculations, and expected costs of a wind system after incentives for vertical and horizontal turbines. Students will learn to conduct a site survey and assemble, install and connect a turbine. Permits, ordinances and certifications for small wind will be discussed. This training can be applied to meet the education requirement of the NABCEP Small Wind Installer Certification exam.

## **SOLAR HOT WATER SYSTEMS WORKSHOP**

ECX 109

Mon, 6 – 9 pm, 11/7 – 11/28

12 Hours, \$200

Solar water heaters are a cost-effective way to generate hot water for a home or business. They can be used in any climate, use free sunshine as fuel, and federal, state, and utility incentives are available, and offer a quick payback. This intensive workshop offers hands-on instruction in site and load analysis, safety and codes, system types, orientation, system balance procedures, maintenance and follows the NABCEP Solar Thermal Task Analysis (TA).

## **NEW**

### **URBAN FARMING FALL TOOLKIT: EXTEND YOUR GROWING SEASON**

HHT 084 A

Thurs, 6-9 pm, 10/13 & 10/20

Site Visit: Sat, 10/15 from 10 am - 1 pm

9 hours, \$90

Extending the growing season. Find out how you can extend the summer growing season and bring spring early next year. Find out more about cool weather crops, planting garlic, root vegetables, cold frames seed saving, transplants and other techniques. The class will visit a garden and then return to the classroom, where you will map out a plan that maximizes the potential for your growing space.