

CENTER FOR PROFESSIONAL DEVELOPMENT

PRINCIPLES OF GREEN BUILDINGS

30 Hours/3 Months/Instructor-Facilitated
Course Code: **CPD108** || Course Cost: **\$595**

OVERVIEW

The Principles of Green Buildings Online Training Program will give you the science behind the concept of house-as-a-system by going through all of the major sub-systems that affect the way the entire structure system performs. A building is the sum of many parts, and for best performance for the occupants, it must be set up correctly with those sub systems synced together. A building that performs correctly will offer the best energy efficiency, provide a healthy environment for its occupants, and maintain its structural integrity.

This program will help you prepare for BPI, NATE, NARI, RESNET, and other industry credentials for green buildings. If you successfully complete this program with an overall grade of 75% or higher, you'll qualify for 28 hours of continuing education units (CEUS) from BPI or NATE, and those CEUs are applicable to several certifications.

OBJECTIVES

Upon successful completion of this program, you'll:

- Appreciate the interaction of individual building systems in the whole-house operation
- Have completed the initial portion of the BPI certification and other home performance certification processes
- Understand issues of building science and how they can relate to occupant health
- Discover the relationships of building systems and building sustainability

OUTLINE

1. The House as a System
2. Air Flow Basics
3. Heat Flow, Insulation, Windows
4. Framing and Air Sealing
5. Moisture Management
6. Conditioning Strategies
7. Ventilation
8. Combustion Safety
9. Indoor Air Quality Basics

COMPUTER REQUIREMENTS

- PC with Windows XP/Vista/7 and IE 7 or later browsers
- Internet connection (high-speed recommended)

INSTRUCTOR BIO

Roger DesRosiers has an extensive career in HVACR with 30 years as an apprentice instructor and seven years as a college professor. He's also spent many years as a Journeyman Air Conditioning, Refrigeration, and Steam fitter; an Estimator/Application Engineer; Supervisor of Air Conditioning; Refrigeration and Steam fitting; and Craft Head of Air Conditioning, Refrigeration, and Steam fitting.

Over the years, he has earned an Associate's and a Bachelor's degree in Air Conditioning, Refrigeration, and an Associate's in Electronics. Among his professional certificates are: Teaching Certificate in Vocational Education for Air Conditioning and Refrigeration, Certified Energy Manager from the Association of Energy Engineers, Certified Member of Refrigeration Service Engineers Society, and Certified Member of Plumbing Industry Progress in Education. He is 608 EPA Certified. Recently, Roger authored and edited a number of online courses and an article on Tech Tips. He also completed a course in online faculty training to bring our students the very best in both teaching and technical industry knowledge.