

**CENTER FOR PROFESSIONAL DEVELOPMENT****GREEN SUPPLY CHAIN AND BUILDING PROFESSIONAL**

120 Hours/12Months/Instructor-Facilitated  
Course Code: **CPD070** || Course Cost: **\$2785**

**OVERVIEW**

Excelsior College has partnered with ed2go to bring you the Green Supply Chain and Building Professional certificate program. This program consists of three courses: Certified Green Supply Chain Professional, Principles of Green Buildings, and Performing Comprehensive Building Assessments.

**Certified Green Supply Chain Professional**

The supply chain is at the heart of operations for most businesses. Prepare yourself for a challenging and rewarding career in the green supply-chain management field or gain the edge to move forward in your career with this convenient online training program.

This professional certification program will help you learn the essentials of green product standards and labeling as well as how to develop sustainability supplier programs, implement sustainable business practices, apply lean and green manufacturing strategies, and integrate these practices across the extended supply chain.

**Principles of Green Building**

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. The nine modules of Principles of Green Buildings will take you through all of that material. If you have any in-depth questions or if you need further explanation of content, you'll have a mentor for support and information.

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.

**Performing Comprehensive Building Assessments**

The Performing Comprehensive Building Assessments program features a task-oriented format that applies practical, real-world situations in each module. This program expands the theories and concepts taught in the Principles of Green Buildings program. Performing Comprehensive

Building Assessments is intended for students who are engaged in conducting building assessments, energy audits, performance testing, energy ratings, green ratings, rating verifications, quality assurance, quality installations, building inspections, home inspections, home tune-ups, or any other related building improvement, evaluation, or repair services that make changes to the building as a system.

You'll start out learning the systems, tools, and techniques commonly encountered during visual observations, including evaluation of envelope components, mechanical systems, and base loads such as appliances and lighting. You'll then move on to diagnostic testing, with an emphasis on safety. You'll learn how to set up and use the blower door for building pressurization and depressurization testing and how to use the data you obtain. The program will cover combustion safety testing, basic duct diagnostic testing, and CO testing for appliances. Finally, you'll learn how to use assessment information and diagnostic results to develop a work scope which you can then present to a customer.

The Performing Comprehensive Building Assessments Online Training Program will help you prepare for BPI Building Analyst Certification and NATE HVAC Efficiency Analyst Certification (Senior Level). This program will refer to the BPI Building Analyst as well as to various industry codes and standards. Instruction aligns with ANSI/ACCA Quality Installation and Maintenance Standards. Both BPI and NATE recognition of continuing education hours (30 CEHs) applicable to recertification is pending. You must obtain a 75% or higher to obtain CEH recognition.

## **OUTLINE**

### **GREEN SUPPLY CHAIN PROFESSIONAL**

1. Green Purchasing Fundamentals
  - I. Introduction to Green Procurement
  - II. Design for Environment (DfE) Principles
  - III. International Green Labeling
  - IV. Green Product Standards
  - V. Environmentally Preferred Purchasing (EPP)
  - VI. Supplier Relationship Management
  - VII. Green Purchasing Program Development
2. Sustainability 101: Corporate Social Responsibility
  - I. Sustainable Development
  - II. The Business Case for Sustainability
  - III. Organizational Roles and Functional Influences
  - IV. Corporate Social Responsibility
  - V. Sustainability in Major Business Sectors
  - VI. The U.S. Green Building Council and LEED
  - VII. Introduction to Environmental Science
3. Carbon Strategies
  - I. Introduction to the World Resources Institute: WRI Protocol
  - II. Developing a Climate Strategy
  - III. Supporting Green House Gas Reductions
  - IV. Tracking Emissions and Reporting
  - V. Tools and Best Practices Every Organization Should Know About
  - VI. The Green Supply Chain's Carbon Footprint

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- VI. Developing a Carbon Policy
- 4. Green Transportation: 12 Best Practices
  - . Green Transportation and Logistics
    - I. Building Energy Efficiency in 3PL Operations
    - II. Greater Sustainability in Distribution Operations
    - III. The EPA SmartWay Program
    - IV. Green Fleet Management
    - V. Best-practice Case Studies
- 5. Green Supply Chain Management
  - . Integrating Sustainability Across the Extended Supply Chain
    - I. The Lean and Green Supply Chain
    - II. Carbon-efficient Supply Chains
    - III. Evaluating the Supply Chain for Sustainability
    - IV. Aligning Green Supply Chain Practices With Business Goals

### **PRINCIPLES OF GREEN BUILDINGS**

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

### **PERFORMING COMPREHENSIVE BUILDING ASSESSMENTS**

1. Observation Techniques and Data Collection
2. Exterior and Interior Assessment and Building System Analysis
3. Blower Door and Zonal Pressure Diagnostics, Ventilation Rates
4. Combustion Safety Testing and Analysis
5. Duct Diagnostics
6. Work Scope Development and Customer Relations

### **INSTRUCTOR BIO**

**Angie Coats** is a director of contracting responsible for state and federal government business and support for all Department of Defense and GSA services. Angie has more than 25 years of experience as a senior contracting officer in the federal government and is a current board member of the National Contracting Management Association (NCMA). She has managed Federal Acquisition Requirements (FAR) standards for billion-dollar government programs. She's an important member of the EPA EPP instructional program.

**Howard Forman** is an adjunct member of the instruction design team, responsible for program development projects to support the green supply-chain curriculum. He's also an associate professor at California State University. He has taught at Drexel University and Penn State and served as an adjunct professor at ESCP-EAP, Paris, France.

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**Sandy Horton** is a member of the instruction design and delivery team. She has been the sustainability leader and director of sustainability in a billion-dollar corporation, responsible for linking the organization strategy with the corporate social responsibility strategy. She developed the product line requirements and environmental operational processes, and aligned the brand strategy with the overall sustainability goals.

**Alan Hughes** serves as an adjunct advisor and consultant, assisting with the development of new curriculum and custom-product development. Alan brings with him more than 17 years of experience developing training programs as an employee of the U.S. EPA. He is leading the training needs assessment project for a custom Department of the Navy executive program.

**Mike Park** has been responsible for multiple enterprise and commercial IT groups in software corporations in the financial, healthcare, and manufacturing industries. He has a rich background, spanning from Internet and e-commerce platforms to SAP. He has led application development teams for Internet, Intranet, Extranet, ERP, CRM, EDI, and logistics solutions. As the chief technology officer and partner of a middle-market healthcare company, he led the initiative for the launch of new Web-based software called OfficeMD for practice management, Office EMR for electronic medical records, and BillingMD for medical billing application in a Software as a Service (SaaS) model. Mike has led the effort for an industry-changing prototype carbon tracking and reporting software.

**Chris Perry** brings 25 years of global operations experience to ed2go with an exceptional background in government business. He served as the deputy commander for military aircraft systems manufacturing with Boeing and has had country-level responsibility in South America and Africa as a warranted government contracting officer. He has fulfilled senior-level roles in the Defense Contract Management Agency (DCMA). Chris has been the president of a government consulting company specializing in rapid prototype engineering at the Marshall Space Center. He leads a government services group and is responsible for EPA Environmentally Preferred Purchasing systems integration strategy. He holds an M.S. in industrial engineering and an M.A. in National Security and Decision Making from the Naval War College.

**Margaret Price** is currently the chairwoman and chief sustainability officer for a globally operating sustainability company. She's responsible for the entire worldwide operations and has more than 20 years of global operations leadership experience. She is a creative, hands-on professional operations executive with extensive experience leading the sustainability efforts for a global manufacturing company, as well as leading the groups responsible for contract manufacturing, operations, distribution, supply chain, inventory control, engineering, and quality assurance and regulatory compliance. She has very unique experience working within the sustainability space of the hospitality sector as she has worked with some of the largest hotel chains in the world. She served as a sustainability board member of NEWH. Her areas of responsibility span Asia, the Middle East, India, Europe, the Caribbean, and Mexico.

**Robert Price** is the CEO of a global sustainability company. He is an innovative leader and visionary with over 25 years of global operations and strategic management experience. He has an incredibly diverse leadership portfolio with a track record of achieving world-class results in every assignment. He has led and designed the sustainability strategy for a \$1.1B global organization, served as the general manager of a logistics company, led the global supply chain operations for a \$600M manufacturing organization with the goal of greening their supply chain, served as a vice president and expatriate in Asia in the pharmaceutical industry, and led a shared services group as a vice president in a service company. In 2007, his supply-chain

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accomplishments were featured in *Supply & Demand Chain Executive* magazine in the cover story, "The Human Quotient," highlighting the incredible results an organization can achieve through investing in skills development of its workforce. He was featured in *Purchasing magazine* twice in 2007 for supply-chain and purchasing professional training program excellence. In 2003, he led the first organization to receive the American Society for Training & Development (ASTD) Best Award, selected from among 74 global companies in six countries. He has been recognized by *Training* magazine, appearing in the Training Top 100 twice, including receiving the coveted Editor's Choice award. His doctoral dissertation is entitled *Green Supply Chains: Clean Business in the 21st Century*. Robert is a graduate of MIT Sloan Executive Program and holds a senior executive certificate in technology, operations, and value chain management.

**Rob Young** is a member of the instruction design and delivery team, experienced in the operations and global supply-chain sectors. Rob has led procurement organizations for global companies as the director of global sourcing, responsible for greening the supply chain. He has incredible experience working with the extended supply chain and enabling suppliers to join an organization's sustainability journey.

**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.

**Keith Conrod** brings over 30 years of experience in the construction and installation of HVACR systems in a variety of settings to the HVACReduction.net faculty.

Upon graduating from high school, he attended the University of Calgary for two years (studying Mechanical Engineering), later transferring to the Southern Alberta Institute of Technology, where he received certification in plumbing and first class gas fitting. Keith has also received certification in Cross Connection Control and Backflow Prevention, Mechanical Estimating, and Hydronic Heating Design (Northern Alberta Institute of Technology). He is also a member of the AWWA , WCWWA, and Local 496 ( United Association of Plumbers and Pipefitters).

After becoming a certified journeyman, Keith installed the plumbing, heating, medical gas, and HVACR systems in such buildings as hospitals, schools, high-rise office and apartment buildings, food production facilities, sewage treatment plants, and many homes. He has a broad range of acquired knowledge and experience in the light industrial, commercial, and housing disciplines. Presently employed as a Site Superintendent/Project Manager for a major mechanical contractor (in the Calgary, Alberta, Canada area), he oversees the onsite design and installation of all mechanical systems and

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provides a jobsite link to the engineers and architects. He is also responsible for the training of apprentices and giving guidance and direction to the certified tradesmen in his charge.

Keith is well versed in all aspects of the HVACR industry and provides us with a valuable link as well as hands-on insight to the HVACR practices and procedures in the field.

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