In 2007, Caldwell Community College and Technical Institute first recognized the increasing demand for education and training in sustainable technology, green business enterprises, and green workforce development. CCC&Ti has responded by creating the Institute for Sustainable Technology (IST) to provide workforce training and informational resources for individuals, entrepreneurs, professional service providers, and business and industry clients. CCC&Ti, through the IST, reaches regionally across the service area of Caldwell and Watauga counties to spotlight the market potential of skills, products and services related to the Green Economy.

We are glad that you are interested in CCC&Ti's Institute for Sustainable Technology, and we encourage you to learn more by exploring our course offerings. If you have any questions, please feel free to give us a call at 828.798.2242.

Creating Success: Hope, Opportunity and Jobs
CCC&Ti's Pathways to Sustainability

Homebuilder's Pathway
Courses Include:
- Sustainable Development
- Introduction to Sustainable Design
- Emerging Trends in High Performance Building
- Renewable Energy Overview
- Water Management and Green Landscape Design
- Building Performance Institute

Industry Pathway
Courses Include:
- Sustainable Development
- Green Business 101
- Renewable Energy Overview
- Green Tax Law
- Building Operators Certificate

Electrical Pathway
Courses Include:
- Electrical Program Standard Course of Study
- Sustainable Development
- Fundamentals in Photovoltaic Technology
- Renewable Energy Overview
- Emerging Trends in High Performance Building
- NABCEP - PV Installer

HVAC Pathway
Courses Include:
- HVAC Program Standard Course of Study
- Sustainable Development
- Advanced HVAC
- Renewable Energy Overview
- Emerging Trends in High Performance Building
- HERS and/or NABCEP

Plumbing Pathway
Courses Include:
- Plumbing Program Standard Course of Study
- Sustainable Development
- Fundamentals in Solar Thermal Technology
- Renewable Energy Overview
- Emerging Trends in High Performance Building
- NABCEP – Solar Thermal Installer

www.cccti.edu/gogreen
Check us out on Facebook  YouTube  Keyword: CCCTI
Institute for Sustainable Technology Course Listings

Building Operators Certificate
Building Operator Certification (BOC) is a nationally recognized training and certification program for building operators offering improved job skills and more secure, energy-efficient facilities. This course prepares the participant to incorporate energy efficiency in medium to large scale industrial buildings. Course content is project-based over 11 months.

Green 101 – Small Business
This course will address simple methods to reduce energy consumption, reduce waste and improve the bottom-line by becoming more environmentally conscious in the small business work environment. Students will learn about aspects of “Going Green” they might not have considered before such as the importance of local sourcing and how it impacts our small businesses and our environment. The course areas include self-analysis of business energy use or carbon footprint, water reduction methods, energy efficiency, green transportation, supporting local business and heritage, and how to effectively market your business once you adopt these sustainable methods. This course is offered online.

Sustainable Development
Sustainable development is defined as development that ensures the well-being of the human person by understanding and integrating a triple bottom line of social development, economic development, and environmental conservation and protection as the foundation of sustainability. Students will learn about the history, methods, vocabulary, and real world practices associated with sustainable development.

Renewable Energy Overview
In this course, students will learn about renewable energy sources such as photovoltaic, solar thermal, wind, micro-hydro, geothermal, and bio-fuels. Upon completion of this course, students will be able to identify and describe components that fit a specific renewable energy source. These classes will give an in-depth look at how each of the energy sources can benefit students or their clients. Students may be surprised to learn that they could use one or more of these energy sources to supply power to their home or dwelling.

Emerging Trends in High Performance Building
This is the perfect class for those wanting to learn more about high performance building. Classes will cover air and heat flow, proper insulating techniques, moisture control, and crawl spaces. Students will also learn about testing methods using instruments such as the blower door, duct blaster, thermal camera, and carbon monoxide testers. You will learn how to become a certified “Green” builder and explore different building programs that can fit any building trade.

Water Management and Green Landscape Design
This course instructs students on how to deal with water in a holistic fashion taking into account the various sectors affecting water use including political, economic, social, technological, and environmental considerations. The course also deals with integrating these ideas with landscaping practices which promote native plant growth along with proper plant location management. Students will identify simple ways to incorporate these sustainable practices at home or work to make a positive impact.

Building Performance Institute (BPI)
BPI is a nationally-recognized training program that will help the student become the type of builder necessary for the future. BPI works with building performance industry stakeholders to ensure that the professional bar for excellence in building performance contracting is established and maintained by creating and regularly updating technical requirements through an open, transparent, consensus-based development process. Go to www.BPI.org to learn more about BPI.

Building Operators Certificate (BOC)
BOC covers energy efficiency guidelines for building operators (e.g., maintenance personnel at hospitals, schools, industrial sites or other large scale utility customers). It is a nationally recognized training and certification program for building operators.

Advanced HVAC Technology
This course designed to introduce the HVAC professional to the most current design and installation techniques, materials, and performance testing equipment. The course is intended to enhance efficiency for any given building envelope.

Fundamentals of Photovoltaic Technology
This course gives an in-depth view into the technology, applications, and considerations associated with photovoltaic systems. Students can learn about site assessment, placement, installation, wiring, safety and other key aspects of PV technology. Students will be prepared to sit for the NABCEP certification exam upon completion of this course.

Fundamentals of Solar Thermal Technology
This course gives an in-depth view into the technology, applications, and considerations associated with solar thermal systems. Students will learn about one of the most affordable and cost effective renewable energy sources. Students will be prepared to sit for the NABCEP certification exam upon completion of this course.

Introduction to Sustainable Design
This course introduces concepts and principles related to sustainable site development and architectural design. Topics include low impact and sustainable site development, water efficiency, energy efficiency, material and resource management, indoor environmental quality, and return on investment. Upon completion, students should be able to articulate and integrate sustainable design principles into site and architectural design.

Junk to Funk: Sculpting with Recycled Materials
Junk to Funk is a sculpture course which shows students the artistic side of sustainability. Students will learn how to communicate a message of sustainability through their artistic expressions with varied media, most of which can be gathered as recyclable/reusable items.

Small Business Start-up Series: A 5-Week Seminar Series

How to Start a Small Business
Learn the basics steps for starting a green business. Have a better business idea? This is the perfect place to start!

How to Write a Business Plan
There are two main parts to a plan: the narrative (which describes your business) and the financial information. Your business plan is your guide for success. Learn how to map out your plan.

How to Finance a Business
This class will examine various sources of capital and the risks of the road for obtaining it. Learn how important your credit rating is to lenders, equity vs. debt financing, and how forms of business ownership affect financing possibilities.

Record-Keeping for Small Business
Learn simple, effective ways to set up a bookkeeping system, organize your records, and then use them to complete your federal income tax forms.

How to Market Your Small Business
Learn steps to marketing and advertising your business. Look at how to plan your advertising budget, newspaper ads, and how to discover your target market.

For more information on these or other CCC&TI Corporate and Continuing Education offerings, call 726-2242 or visit www.ccti.edu