



NEW! Customize Your Green Certificate

Now you can customize your green certificate by choosing courses that most effectively reflect your chosen career path. Take any five courses from either the *Green Energy Management* program or the *Residential and Commercial Sustainable Practices* program. Earn a customized certificate that will provide you with the real-world skills you need to be successful.

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What is a green job?

A **Green Job** is an occupation that: 1) directly works with policies, information, materials, and/or technologies that contribute to minimizing environmental impact; and, 2) requires specialized knowledge, skills, training, or experience in these areas.

A **Green Firm** is an organization that provides products and/or services that are aimed at utilizing resources more efficiently, providing renewable sources of energy, lowering greenhouse gas emissions, or otherwise minimizing environmental impact.

- California is leading the way on greener building codes, energy efficiency standards, and other key policies that drive green industry investments.

"When you are unemployed, it's good to focus on education and retraining. It's a great opportunity to study new topics. It's something you can add to your resume and talk about during interviews. It helped me by showing I was doing something useful with my time and working toward switching industries. I believe that taking classes in the Green Energy Management Certificate has helped me transition from the high-tech industry into the renewable energy field, which was my main aim."

— Kay

Who should enroll?

People seeking a career change with an emphasis on green, sales people, architects, contractors and construction professionals, city and county professionals, entrepreneurs, real estate professionals, future project and facility managers, engineers, interior designers, and individuals wanting a career in the green industry.

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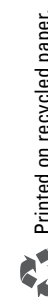
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5250 Campanile Drive, San Diego, CA 92182-1920

"I am taking the Professional Certificate in Residential and Commercial Sustainable Practices Online. High Performance Green Commercial Offices was an amazing course and I can honestly say I have learned an enormous amount of knowledge that will help me in the future, that goes for the entire program! Thank you very much for this amazing opportunity!"

— Brett

Choose from 4 Professional Online Green Certificate Programs

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- Anytime, anywhere, online learning
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Green Industry Professional Certificates Online

Making Careers Green

- Green Building Construction
- Green Energy Management
- Residential and Commercial Sustainable Practices
- **NEW!** Water Conservation and Landscape Sustainability

www.neverstoplearning.net/green



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Green Building Construction

This program is for those interested in the implementation of sustainable building tools and strategies. It is also recommended for professionals moving into fields that require knowledge of green building or sustainable design, or anyone who recognizes the emerging importance of sustainable design and its impact on our daily life.

The Certificate

To earn the certificate, the student is required to receive a passing grade in these five courses: *Fundamentals of Green Building Design and Construction*; *Construction Materials and Processes*; *Building Green Buildings – The Contractor’s Perspective*; *LEED for New Construction – Applying the Guidelines*; and *Green Building Commissioning*.

The Courses

Fundamentals of Green Building Design and Construction

Gives the student an overview of design and construction delivery systems for high-performance green buildings. Students learn the US Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) NC (New Construction) requirements, sustainability evaluation systems, and the concept of high-performance green buildings and sustainability.

Building Green Buildings – The Contractor’s Perspective

Provides construction professionals with information on how to effectively bid, contract, build, and close out green building projects. Explore the green building process from the contractor’s and subcontractor’s point of view. Teaches how to work with an outside commissioning authority to complete the job.

LEED for New Construction – Applying the Guidelines

Reviews the Leadership in Energy and Environmental Design (LEED) Credit System. Identifies the objectives of sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, and innovation and design process credits and prerequisites.

Green Building Commissioning

Studies techniques to achieve the goals of green building standards during and beyond building construction. The course reviews the makeup of smart buildings and the incorporation of commissioning throughout the building lifecycle. The course also identifies the objectives of integrated systems into building automation, and the use of commissioning to verify the system performance.

Construction Materials and Processes

Provides an overall and elementary understanding of construction materials and processes. Students study one specific material category, one specific construction process, and an overall construction system each week. You have the opportunity to expand the studies to include materials and processes that are normally experienced in the workplace.



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Green Energy Management

This program provides students with knowledge that is necessary for a career in energy management and renewable energy technology. Online courses will emphasize an energy overview: energy efficient technologies; solar alternatives; sustainable backup heating systems; renewable energy options; energy audits; renewable energy conversion; green sales strategies and concepts; and the newest legislation and industry trends.

The Certificate

To earn the certificate, the student is required to receive a passing score in these five courses: *Introduction to Renewable Energy*; *Converting to Renewable Energy*; *Energy Efficiency, Evaluation, and Design*; *Energy Auditing: The Metrics of Green Building*; and *Environmental Economics and Policy Making*.

The Courses

Introduction to Renewable Energy

Provides a top-level overview of the history, policy, jobs, and economic issues driving the emerging renewable energy field. Students learn the basics of key technical areas in the renewable field including solar energy, wind and wave energy, bio-algae energy, and energy issues and opportunities in careers related to retrofitting the built environment.

Converting to Renewable Energy

Illustrates the role of renewable energy in strengthening the U.S. economy. Learn why energy efficiency is the most economic of renewable energy sources, and about energy source costing and how to determine the likely cost per kilowatt-hour of that source, and describe the most common forms of renewable energy. Case studies, videos, and interviews with local companies will showcase renewable energy in their business.

Energy Efficiency, Evaluation, and Design

Presents the key concepts and methods of energy efficiency. Explores how energy is converted into useful services and the role of increased efficiency in providing those services with less energy. The practical implications of public policies, behavior, and economics are interspersed with technical and theoretical aspects. Key concepts include how to convert and design efficient solar energy designs.

Energy Auditing: The Metrics of Green Building

Designed to give an overview of an energy efficiency audit, participants will learn about the purpose of a diagnosis, the tools utilized to perform an energy audit, and the relevance of Title 24 to these energy audits. Using the building-as-system approach, this course will give students a thorough understanding of the emerging fields of home performance, sustainable design, and green building practice.

Environmental Economics and Policy Making

Applies the concepts of economics to environmental problem-solving and corporate decision-making by engaging a wide array of issues that affect modern businesses and governments. Sustainable development, water quality, pollution control, energy efficiency, process improvement, waste management, and traffic control are all influenced by fundamental economic principles. Challenges students to discuss, critique, and frame modern problems by harnessing the power of economics.



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Residential and Commercial Sustainable Practices

This program offers best practices and sustainable trends to take a proactive role in driving the workforce and the home into implementing sustainable practices. Students define sustainability and learn the history of green, new policies and laws, codes and standards, and new trends, all with a focus on green jobs. Students gain critical perspective and understanding of sustainable management in work and residential environments, and in career options.

The Certificate

To earn the certificate, the student is required to receive a passing score in these five courses: *Overview of Sustainability*; *Green Solutions for the Home*; *Strategies for Creating and Maintaining a Green Facility*; *Creating High Performance Green Commercial Offices*; and *Global Sustainability and Future Trends*.

The Courses

Overview of Sustainability

Provides students with a general overview of sustainability, from the economic, sustainable development to social-equity perspectives. Examines how researchers and analysts define sustainability, as well as how they measure and track progress. Presents knowledge on the three areas of importance: commercial and business, community leaders, and society. Studies the triple bottom line; best practices, and reviews policies, laws, codes, and standards including AB 32 and its impact.

Green Solutions for the Home

Introduces key concepts and strategies pertaining to existing and new construction housing sectors. Learn green home solutions within topics such as: space planning; efficient design; energy and water efficiency; indoor/outdoor considerations; material selection; and waste management. Understand current market factors, policies, incentives, rating systems, and programs that are driving market transformation.

Strategies for Creating and Maintaining a Green Facility

Explores corporate, economic, and environmental factors to create and manage a green facility. Learn how to assess current practices within the operation and develop a plan to produce results that are direct, measurable, and driven to the bottom line through lower operating costs, higher productivity, and reduced risk.

Creating High Performance Green Commercial Offices

Teaches how to create a highly sustainable office by using industry recognized sustainable considerations, lean construction practices, and cost-effective product solutions that improve the bottom line of any business. Students develop a decision matrix, learn energy management systems, understand how a focus on flexibility allows change to occur for less money in less time, learn how a recycling focus ensures less waste, and become skilled at costing out all future purchases that have smaller effects on the environment.

Global Sustainability and Future Trends

Focuses on international and national trends. Examines the universe of environmental laws affecting air quality, water quality, hazardous waste, hazardous materials, and site closure and cleanup. Provides an overview of the key program elements that environmental managers, regulators, city planners, government managers, and green consultants need to know.



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NEW! Professional Certificate in Water Conservation and Landscape Sustainability

Water is critically important to life, and San Diego sits at the end of the water pipeline. According to the City of San Diego, approximately 10 to 20 percent of our drinking water comes from local rainfall in any given year. The remaining water is imported from two principal sources; the Colorado River and the Sacramento Delta. In an area so reliant on imported water, policy makers are seeking options to provide an adequate supply of clean water, as well as to reduce the demand on our water resources. Wastewater agencies are likewise continually treating water for proper release into the environment or for reclamation and recycling.

Workforce Benefits

- This comprehensive approach to water and wastewater management requires a healthy supply of well-trained workers.
- Re-frame your career, using new skills in a growing industry.
- Offers an opportunity to improve water supply reliability, and improve water quality.
- Acquire skills and knowledge in a fast-growing industry.
- Offers industry-expert instructors, who have advanced knowledge of sustainable practices in the water environment for homes and commercial buildings.
- Take courses online; anywhere, anytime, anyplace.

Challenges in the Water Industry

Shifting regulatory requirements, facilities, processes, procedures, and equipment, and inadequate knowledge management systems were identified as challenges. A five-year study predicts a growth rate of 10 to 20 percent for these occupations. New occupational titles are being developed daily.

Course Topic Areas

Courses will include topics such as: the water crisis today, climate change, water use today, ecosystem changes, human population growth, pollution issues, regulations and legislation, renewable energy sources, water efficiency, storm water and wastewater, waste management and recycling, commercial buildings and homes, manufacturing, gray water for purposes like landscape, landscape conservation and new trends in the water industry.

Water Career Occupations

Those who complete this certificate program will be ready for careers such as:

- water conservation/water resources professional
- soil conservation technician
- energy manager
- specialist desalination manager/worker
- water treatment operator
- water quality analyst
- sustainable landscaper
- water distribution operator
- wastewater collections operator
- wastewater treatment operator
- landscaper
- organic farmer

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