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SUSTAINABLE ENERGY TECHNOLOGY

2022 / 2023

Sustainable Energy Technologies Certificate Program

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What We Do

This 126 hours of certificate program provides an introduction to sustainability and green technologies and demonstrates why energy innovations are critical for the future. Learners will be introduced to different types of clean energy technology such as wind turbines, solar power, hydroelectricity, geothermal energy, tidal energy, and fuel cells. Learners will also discuss how advances in energy storage technologies are making these systems more economical and how advances in electric vehicles will increase demand for new energy sources. The implementation of clean energy technologies is also studied to understand how they can work either in conjunction with or as a replacement for, conventional power sources.

By the completion of the certificate program learners will be able to describe the mechanics of how power and heat are generated, financially evaluate and compare sustainable energy technologies, and describe the major steps required to design, implement, and manage their own sustainable energy projects.

Graduates of the Sustainable Energy Technologies Program are qualified to write the Sustainable Energy Professional (SETP) exam as part of the Foundation Technologies Institute credentialing process.
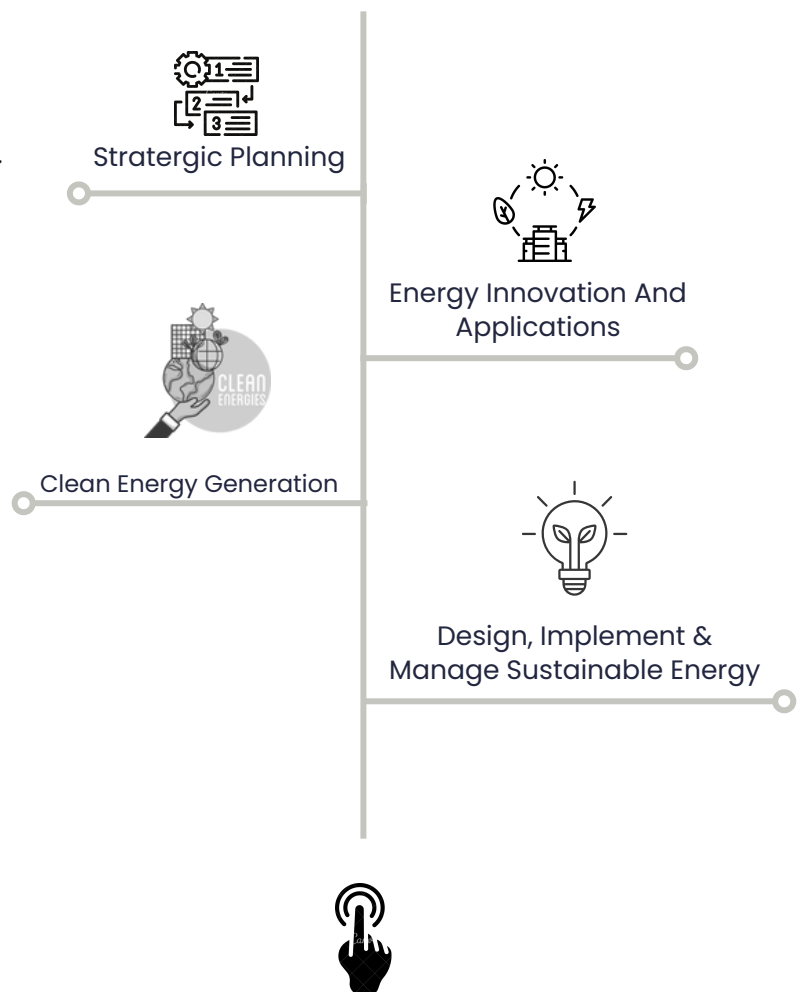
Our Objectives

Participants will enhance their knowledge of wind, solar, geothermal, biomass, as well as conventional energy systems such as coal, gas and nuclear power and gain an understanding of the economics of renewables, policy directions, and how renewables will integrate with smart grids and the Internet of Things (IoT).

Why Sustainable Energy Technologies Certificate Program

Participants will gain practical knowledge and skills to be able to :

- Walk through every step required to design, implement and manage a sustainable energy project.
- Recognize the most common and most innovative applications of energy in electricity, transportation, heat and buildings.
- Understand the mechanics of how power and heat are generated and utilized.
- Financially evaluate and compare sustainable energy technologies.
- Understand barriers and incentives to implementation of renewable energy technologies.

Our sessions are designed to help you

Stratergic Planning

Energy Innovation And Applications

Clean Energy Generation

Design, Implement & Manage Sustainable Energy

Get in Touch
Contact@blocksedu.com

Module 1:
SETCP 101: Energy Fundamentals

This class introduces learners to the theory and practice behind energy production, distribution and consumption. Learners will discuss the relationship between energy and the environment and leave with a strong grasp of the basic terminology and units of measurement used throughout the certificate program.

FORMAT
Asynchronous / Self Pace

LENGTH
42 hours

Module 2:
SETCP 102: Solar Energy Developers

This class provides an introduction to the technology behind solar power. It provides learners with a foundational understanding of solar energy and walks them through the planning, design, and development process required to install a solar project. Learners will leave with an understanding of the mechanics behind solar power generation, the economics of different solar power projects, technical aspects of its integration into power grids and the future potential of this technology.

FORMAT
Asynchronous / Self Pace

LENGTH
42 hours

Module 3:
SETCP 103: Wind Energy Developers

This class provides learners with a foundational understanding of wind power technologies and walks them through the planning, design, and development process required to install different wind projects. Learners will leave with an understanding of the mechanics behind wind power generation, the economics of different types of power projects, technical aspects of its integration into power grids, and the future potential of this technology.

FORMAT
Asynchronous / Self Pace

LENGTH
42 hours

Why blocksEDU?

BlocksEDU has developed programs that offer micro-credentials focusing on both theory and application to help create an employable workforce. Our mission is to be the "World Leader in Micro-Credentialing Education Courseware Development" We see the future of education where anyone, anywhere can transform their life by embracing micro-credentialing learning. Students can acquire micro-credentials in Certificate in Blockchain, Bitcoin & Cryptocurrency which will help give them an edge in today's competitive workforce.

Here's what our students have to say

"As a professional already working in the field of corporate social responsibility (CSR), I found the material to be easily applicable to my real-world goals and objectives while also providing me with new additional resources to pull from. As a result, this course will "level up" every student, whether new to the profession and looking for a foundational understanding, or a seasoned expert looking to formalize their work."

Cindy Pope, Corporate Social Responsibility Specialist - ANLB

"The synchronous learning sessions fit well with my work and home life while still allowing for an open, engaging and professional remote learning experience. The instructors brought a wealth of knowledge and experience, and the other course participants also enriched the course and class time with their personal experiences and knowledge in the field of renewable energy. This training was exactly what I was looking for..."

Loretta Ransom, Advisor, Energy Funding, Research and Development, Energy Division, Dept. of Infrastructure, Government of the Northwest Territories.

"Taking the renewable energy series was an encouraging experience. In a world that desperately needs more opportunity for education there are very few options that are attainable for people... The course structure was very clear and concise. We had scheduled evening class time meaning I never had to give up work time, forums and boards make connecting with other students easier, and the instructors made themselves available at all times."

Luke Cecelon, Telecontrol Trainee

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