

Certified Renewable Energy Project Developer: Wind Power

COURSE OVERVIEW

This course offers comprehensive insights into the wind energy industry, focusing on project development. It covers technical, economic, and regulatory aspects, equipping participants to manage all phases of wind projects, from site selection and feasibility studies to financing, construction, and operation. Participants will gain expertise in the technical, economic, and regulatory dimensions of wind energy, equipping them to oversee every phase of project development from site assessment and feasibility analysis to financing, construction, and operational management.

WHO SHOULD ATTEND?

This course has been designed to benefit engineers, technicians, and project developers seeking expertise in wind energy. Entrepreneurs can enter or expand in the wind power sector, while policymakers can gain further insights into compliance and sustainability. Facility managers who optimize wind systems, academics, researchers, and students who explore wind technology advancements can also benefit immensely from this course, as well as Energy consultants and financial analysts who can apply feasibility assessments and investment strategies for wind power projects.

COURSE OUTCOMES

Delegates will gain knowledge and skills to:

- Understand the principles of wind energy and turbine technology.
- Conduct site assessments and resource analysis for wind projects.
- Develop comprehensive wind energy project plans.
- Navigate the permitting, regulatory, and environmental compliance processes.
- Secure financing and manage the financial aspects of wind projects.
- Oversee the construction, commissioning, and operation of wind farms.
- Evaluate the performance and optimize the efficiency of wind energy systems.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- How to conduct wind resource assessments using tools like **WindPro** and **WAsP**
- Technical design of wind farms, including turbine selection and layout optimization
- How to navigate permitting, grid connection, and environmental impact processes
- Financial modeling techniques for LCOE, IRR, and project bankability
- Construction and commissioning workflows for utility-scale and distributed wind projects
- Operation and maintenance strategies to ensure turbine uptime and performance
- Real-world case studies on land-based and offshore wind developments
- Risk assessment methods and mitigation strategies throughout the project lifecycle

All our courses are dual-certificate courses. At the end of the training, the delegates will receive two certificates.

1. A GTC end-of-course certificate
2. Continuing Professional Development (CPD) Certificate of completion with earned credits awarded