

# Certified Renewable Energy Project Developer: Photovoltaics

## COURSE OVERVIEW

This advanced certification program equips professionals with the technical, financial, and managerial expertise to develop, execute, and manage photovoltaic (PV) energy projects. The curriculum blends theory with hands-on tools, real-world case studies, and industry best practices to prepare learners for leadership roles in the rapidly growing solar energy sector. Participants will master the lifecycle of solar project development, from site assessment and feasibility studies to design, financing, permitting, and grid integration.

## WHO SHOULD ATTEND?

This course is designed for engineers, architects, and technical professionals transitioning to solar energy, as well as project managers, consultants, and entrepreneurs in the renewable energy sector. It also targets policymakers, investors, and sustainability officers, along with professionals seeking NABCEP (North American Board of Certified Energy Practitioners) or IRENA-aligned credentials.

## COURSE OUTCOMES

Delegates will gain knowledge and skills to:

- Design and optimize both grid-connected and off-grid PV systems.
- Perform technical and financial feasibility assessments.
- Navigate regulatory frameworks, obtain permits, and ensure environmental compliance.
- Structure project financing, including PPAs (Power Purchase Agreements) and incentives.
- Manage project risks, engage stakeholders, and oversee project execution.
- Implement emerging trends such as energy storage integration and agrivoltaics.

## KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- How to design and optimize on-grid and off-grid PV systems
- Tools for conducting site assessments and yield forecasts using tools like **PVsyst**
- How to structure deals with **PPAs**, tax credits, and performance-based incentives
- Technical workflows for permitting, interconnection, and compliance
- How to model ROI, LCOE, and financing structures for solar projects
- Real-world project case studies including rooftop, ground-mounted, and utility-scale PV
- Risk mitigation strategies across the project lifecycle—from procurement to O&M
- Emerging trends like **battery storage**, **agrivoltaics**, and **bifacial module deployment**

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