

Certified Renewable Energy Project Developer: Solar Thermal

COURSE OVERVIEW

This course is designed to equip experts with the understanding and competencies required to increase, layout, and control sun thermal strength projects. This comprehensive application encompasses solar thermal concepts, system components, project planning, financial analysis, regulatory frameworks, and sustainability considerations. Participants will gain an in-depth understanding of how to assess solar resources, optimize device performance, and ensure compliance with enterprise standards and guidelines.

WHO SHOULD ATTEND?

This course is ideal for engineers, technicians, and project developers expanding into solar thermal energy. Entrepreneurs can take advantage of the course and launch or grow businesses, while policymakers can gain insights into regulations. Facility managers can learn system management, while academics, researchers, and students can explore the technological advancements related to the course.

COURSE OUTCOMES

Delegates will gain knowledge and skills to:

- Understand the fundamentals of solar thermal energy and its applications.
- Analyze solar resource availability and assess site suitability for thermal systems.
- Design and size solar thermal systems for residential, commercial, and industrial applications.
- Integrate solar thermal technologies with existing heating and cooling systems.
- Navigate regulatory requirements, permitting processes, and compliance standards.
- Conduct feasibility studies and financial modeling for solar thermal projects.
- Develop project proposals, risk assessments, and business strategies.
- Implement maintenance, troubleshooting, and performance optimization techniques.

KEY COURSE HIGHLIGHTS

At the end of the course, you will understand:

- How to design and size solar thermal systems for various applications
- Methods for solar resource assessment and thermal output forecasting
- Integration techniques for hot water, space heating, and industrial process heat
- Key system components: collectors, heat exchangers, tanks, and controllers
- Regulatory compliance, permitting, and safety codes for solar thermal projects
- Financial modeling tools for CAPEX, OPEX, and payback analysis
- How to prepare technical proposals, risk assessments, and ROI forecasts
- Best practices in O&M, performance monitoring, and fault diagnostics

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