

Renewable Energy & Solar Energy: Fundamentals & Applications

22 – 26 March 2027
Paris (France)

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Ref: 321708_168337 **Date:** 22 – 26 March 2027 **Location:** Paris (France) **Fees:** 5900 GBP

Why This Course

As the global demand for clean energy grows, expertise in renewable energy systems is increasingly valuable. This intensive 5-day program equips participants with practical knowledge and hands-on experience in designing, installing, and managing solar energy projects. Combining theory with real-world exercises, the course prepares professionals to implement effective renewable energy solutions and stay ahead in a rapidly evolving sector.

What You'll Learn and Practice

By attending this course, you will be able to:

- Understand the fundamental principles of renewable energy systems and their applications.
- Design, size, and optimize solar PV systems for a variety of settings.
- Evaluate project feasibility and perform basic economic assessments.
- Apply installation, maintenance, and troubleshooting techniques for renewable systems.
- Keep abreast of emerging trends and innovations in the renewable energy sector.

The Program Flow

Day 1: Introduction to Renewable Energy

- Overview of renewable energy sources and technologies
- Global energy trends and the role of renewables
- Fundamentals of energy conversion and storage
- Policy and regulatory frameworks for renewable energy

Day 2: Solar Energy Fundamentals

- Solar resource assessment and site analysis
- Photovoltaic PV cell technology and module types
- Solar PV system components and configurations
- Basic electrical concepts for PV systems

A graphic of a chessboard with several chess pieces (king, queen, rook, knight, and pawns) in gold and silver. The text 'UK Training' is in a small font above the word 'PARTNER' in a large, bold, black font.

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Day 3: Solar PV System Design

- PV system sizing and energy yield calculations
- Component selection and system integration
- Shading analysis and performance optimization
- Grid-connected and off-grid system design considerations

Day 4: Installation and Commissioning

- Safety protocols and best practices for solar installations
- Mounting systems and installation techniques
- Electrical wiring and connection methods
- System testing, commissioning, and documentation

Day 5: Project Management and Emerging Technologies

- Renewable energy project planning and execution
- Economic analysis and financial modeling
- Operations and maintenance strategies
- Emerging technologies and innovations in renewable energy

Individual Impact

Participants will leave this program with:

- The ability to design, size, and optimize solar PV systems for different applications.
- Hands-on experience in installation and commissioning techniques.
- Skills to assess the economic feasibility of renewable energy projects.
- Knowledge to stay updated with emerging trends and technologies in renewable energy.

Organizational Impact

Organizations will benefit from:

- Expertise to plan, execute, and maintain renewable energy projects efficiently.
- Improved operational and financial performance of solar energy initiatives.
- Enhanced adoption of sustainable energy practices in alignment with global trends.
- Access to staff with up-to-date knowledge of emerging renewable technologies.

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A graphic of a chessboard with several chess pieces (a king, a queen, a rook, and a pawn) positioned on it. The board is white and black, and the pieces are gold and silver. The graphic is located in the bottom right corner of the page.

Training Methodology

- Interactive lectures paired with hands-on exercises
- Real-world case studies and scenario-based learning
- Group discussions and collaborative problem-solving
- Practical application of renewable energy design, installation, and management principles

Beyond the Course

By the end of this 5-day program, participants will be ready to:

- Design and implement solar PV systems for commercial, industrial, or residential applications.
- Conduct project feasibility assessments and basic economic analyses.
- Apply installation, commissioning, and maintenance techniques confidently.
- Stay informed on emerging technologies and best practices in the renewable energy sector.

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