



*Training Course:
Solar Energy System – Installation and Storage*

*25 - 29 April 2027
Cairo (Egypt)*

Training Course: Solar Energy System – Installation and Storage

Training Course code: EN234872 From: 25 - 29 April 2027 Venue: Cairo (Egypt) - Training Course Fees: 4410 € Euro

Introduction

Solar energy systems are becoming a cornerstone of sustainable power generation, offering clean and renewable energy solutions for residential, commercial, and industrial applications. Proper installation and efficient energy storage are critical to maximizing system performance, reliability, and return on investment.

This program, designed by Global Horizon Training Center, equips participants with the technical knowledge and practical skills required to install, configure, and manage solar energy systems, including modern storage solutions.

Course Objectives

By the end of this program, participants will be able to:

- Understand the fundamentals of solar energy systems and components
- Design and install photovoltaic PV systems
- Select appropriate system components including panels, inverters, and batteries
- Apply best practices for installation and system integration
- Understand energy storage technologies and applications
- Perform system testing, commissioning, and maintenance
- Ensure compliance with safety and regulatory standards
- Optimize system performance and energy efficiency

Target Audience

This program is designed for:

- Electrical and Renewable Energy Engineers
- Solar Installation Technicians
- Maintenance and Operations Personnel
- Project Engineers in renewable energy
- Facility and Energy Managers
- Professionals interested in solar energy systems

Outline

Day 1: Fundamentals of Solar Energy Systems

- Introduction to solar energy and PV technology
- Components of solar systems modules, inverters, batteries
- Types of solar systems grid-tied, off-grid, hybrid
- Solar radiation and site assessment
- System configurations and applications

Day 2: System Design and Component Selection

- PV system sizing and design principles
- Selection of panels, inverters, and batteries
- Load analysis and energy requirements
- Electrical design and wiring considerations
- Software tools for solar design

Day 3: Installation Practices and Safety

- Site preparation and mounting systems
- Panel installation and alignment
- Electrical connections and wiring
- Safety practices and standards
- Quality control during installation

Day 4: Energy Storage Systems and Integration

- Types of energy storage battery technologies
- Battery sizing and selection
- Integration with solar systems
- Charge controllers and energy management
- Storage system safety and maintenance

Day 5: Testing, Commissioning, and Optimization

- System testing and commissioning procedures
- Performance monitoring and troubleshooting
- Maintenance strategies for solar systems
- Energy efficiency and system optimization
- Case studies and real-world applications

Registration form on the Training Course: Solar Energy System □ Installation and Storage

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