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Solar Photovoltaic Project Management from Development to Handover Training Course

22 – 26 August 2027
Cairo

Solar Photovoltaic Project Management from Development to Handover Training Course

Ref: 3252_123831 **Date:** 22 – 26 August 2027 **Location:** Cairo **Fees:** 4000 GBP

Solar Photovoltaic Project Management from Development to Handover is a 1-week training course for solar project managers, developers and owner's engineers, built around a solar project execution and handover plan for one plant. Solar plants are now procured on tight tariffs and fixed energisation dates, so a slipped permit or late inverter erodes returns. Jupiter Prime Training treats solar photovoltaic project management as the link between land, contracts, site and grid.

Why Solar Photovoltaic Project Management Matters Now

Three groups shape solar project delivery today. Offtakers and lenders set energisation milestones with liquidated damages behind them. Module and inverter suppliers work through long, volatile supply chains. Grid operators expect connection studies, protection settings and test records before they release capacity. A developer that controls these interfaces reaches commercial operation on time; one that does not faces penalty claims and disputed punch lists. The course rests on staged project gates, contract interface matrices and documented commissioning tests.

Who Gains Most from Solar Photovoltaic Project Management

- Project managers who own the schedule from notice to proceed through to commercial operation
- Development leads who secure land rights, permits and grid connection agreements
- Owner's engineers who review contractor designs, inspect works and witness tests
- Procurement and contracts staff who buy modules, inverters, trackers and balance of plant
- Site and construction managers who coordinate civil, mechanical and electrical crews

A developer or independent power producer that sends its project, contracts and owner's engineering leads together gains most.

Solar Photovoltaic Project Management Capabilities

Participants practise moving a solar plant through its gates, from site selection to takeover.

- Assess land, irradiance, grid and permit risks before committing development spend — investment committees
- Specify contract packages and interface responsibilities between contractors — developers and lenders
- Weigh module and inverter supplier offers on delivery, warranty and factory inspection terms — procurement staff
- Build an integrated schedule with critical path and long-lead items — project managers
- Apply quality inspection and test plans to piling, mounting, cabling and terminations — owner's engineers
- Design commissioning, performance testing and takeover steps that close out the contractor's scope — asset owners

Key Solar Photovoltaic Project Management Terms

- Notice to proceed — the formal instruction releasing a contractor to start design, procurement or site works.
- Interface matrix — a table assigning each boundary between contract packages to one responsible party.
- Long-lead item — equipment such as transformers whose manufacturing time drives the critical path.
- Inspection and test plan — a document listing each check, its acceptance criteria and the hold or witness points.
- Performance ratio — measured energy output divided by the output expected from measured irradiance.
- Punch list — the register of incomplete or defective items the contractor must close before final takeover.

Solar Photovoltaic Project Management Day by Day

Day 1: Development, Land and Grid Connection

- Site Screening for Irradiance, Terrain and Access — Ranking Candidate Plots
- Land Rights and Environmental Permits — Securing Consents Before Financial Close
- Grid Connection Studies and Agreements — Fixing Capacity and Energisation Dates
- Energy Yield Estimates — Setting the Production Basis for Offtake Terms
- Development Gate Reviews — Deciding When to Commit Further Spend

Day 2: Contracting and Procurement Strategy

- Turnkey Versus Multi-Contract Packaging — Allocating Design and Delivery Risk
- Interface Matrix Preparation — Closing Gaps Between Civil, Electrical and Grid Scopes
- Module and Inverter Supply Agreements — Securing Warranties, Factory Slots and Delivery Terms
- Factory Inspection and Flash Test Reports — Accepting Modules Before Shipment
- Liquidated Damages and Performance Security Clauses — Protecting Revenue Against Delay

Day 3: Schedule, Logistics and Site Coordination

- Integrated Schedule and Critical Path — Sequencing Piling, Mounting and Electrical Works
- Long-Lead Item Tracking — Expediting Transformers, Switchgear and Inverters
- Laydown, Storage and Delivery Logistics — Protecting Equipment Arriving on Site
- Daily Site Coordination Meetings — Resolving Clashes Between Contractor Crews
- Risk Register Maintenance — Tracking Weather, Supply and Labour Threats

Day 4: Quality, Commissioning and Performance Testing

- Inspection and Test Plans — Setting Hold Points for Piling and Cable Terminations
- String Testing and Insulation Checks — Clearing Direct Current Circuits for Energisation
- Inverter and Substation Commissioning — Coordinating Cold and Hot Commissioning Steps
- Grid Compliance Tests — Demonstrating Reactive Power and Fault Ride-Through Behaviour
- Performance Ratio Test Procedures — Confirming Output Before Provisional Acceptance

Day 5: Practising the Solar Project Execution and Handover Plan

- Gate Review Case — Applying Development Criteria to a Sample Site
- Interface Gap Exercise — Applying the Matrix to a Disputed Boundary
- Schedule Recovery Exercise — Applying Critical Path Logic to a Late Delivery
- Punch List and Takeover Certificates — Closing Out the Contractor's Scope
- Solar Project Execution and Handover Plan — Assigning Gates, Owners and Tests

Applying Solar Photovoltaic Project Management After the Course

- Lead an interface matrix review on a current solar project and assign an owner to every open boundary.
- Rebuild the long-lead tracking sheet for transformers and inverters and agree expediting actions with suppliers.

Solar Photovoltaic Project Management Questions FAQ

What is solar photovoltaic project management, and why does it matter now?

Solar photovoltaic project management is the control of a solar plant's permits, contracts, supply, site works and commissioning until handover. It matters now because offtakers and lenders tie revenue to fixed energisation dates, while supply chains and grid requirements keep shifting.

Which roles gain most from solar photovoltaic project management training?

Project managers, development leads and owner's engineers gain most. Procurement staff and site managers also benefit from the shared view of gates and interfaces.

How does solar photovoltaic project management differ from a solar plant design course?

Solar photovoltaic project management focuses on delivering the plant on time and to contract, not on sizing strings or selecting layouts. A design course sets the technical answer; this course manages permits, packages, schedules and takeover around it.

What do you bring back from solar photovoltaic project management training?

You bring back a written plan for one solar plant covering development gates, contract interfaces, long-lead items, hold points and takeover steps, each with a named owner.

Solar Photovoltaic Project Management: The Way Forward

The solar project execution and handover plan gives the project manager and owner's engineer one reference for the first decision: whether the site and contracts are ready for notice to proceed. After first use, the commissioning section deserves another look, because grid tests often expose gaps earlier gates missed.