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COURSE BROCHURE

Substation and Grid Construction Site Leadership Training Course

5 – 16 April 2027
New York

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Registered in the United Kingdom and Saudi Arabia

Substation and Grid Construction Site Leadership Training Course

Ref: 654_24376 **Date:** 5 – 16 April 2027 **Location:** New York **Fees:** 17000 GBP

Substation and Grid Construction Site Leadership is a 2-week training course for project managers and engineering leads who run substation, overhead line and cable construction sites, built around a Site Leadership Playbook for a live build. Grid expansion is crowding outage windows, contractors and crews onto the same sites, so the way a site lead directs people now decides energisation dates and safety as much as the design does. Jupiter Prime Training offers this course to leads who carry that responsibility.

Why Substation and Grid Construction Site Leadership Matters Now

Three forces shape leadership on substation and grid sites today. Grid expansion and renewable connections bring more parties to every outage window and connection agreement. Multidisciplinary teams of protection, civil and commissioning specialists, often from several contractors, need one clear direction. Communities and asset owners expect earlier, plainer engagement before land, access or shutdowns are agreed. A lead who handles these well keeps energisation dates and goodwill; one who handles them badly faces claims, idle crews and strained client relationships. The course draws on stakeholder salience mapping, principled negotiation and the Thomas-Kilmann conflict modes, applied to engineering decisions rather than office settings.

Who Gains Most from Substation and Grid Construction Site Leadership

- Leads accountable for delivering substation, line or plant projects from award to energisation
- Engineering managers who coordinate protection, civil, electrical and commissioning disciplines
- Owner-side representatives who supervise contractors and approve variations
- Contractor managers who negotiate outages, access and interface issues with utilities
- Senior engineers moving into roles where they direct teams and represent the project to clients

Utility capital project divisions and EPC contractor teams gain most when a project manager, a site lead and a commercial lead attend together and agree one approach to their stakeholders.

Substation and Grid Construction Site Leadership Capabilities

Participants turn engineering credibility into influence over people who do not report to them, from outage planners to community representatives.

- Map stakeholders by power, legitimacy and urgency across a project life cycle — engagement priorities for the project board
- Design an engagement and communication plan for outages and connections — grid operators and affected customers
- Prepare and conduct interest-based negotiations on variations and access — contractors and asset owners
- Diagnose and resolve conflict between disciplines and contractors — schedule recovery decisions
- Communicate technical risk in plain terms to non-engineers — executive and community audiences
- Build team cohesion and delegation patterns on multi-contractor sites — safe, accountable site leadership

Key Substation and Grid Construction Site Leadership Terms

- Stakeholder salience — a way of ranking parties by their power, the legitimacy of their claim and the urgency of their needs.
- BATNA — the best alternative to a negotiated agreement; the course of action a party takes if talks fail.
- Zone of possible agreement — the range of outcomes acceptable to both sides in a negotiation.
- Outage window — an agreed period when equipment is de-energised so that construction or testing can proceed safely.
- Interface register — a record of the technical and organisational boundaries between contractors and who owns each one.
- Escalation ladder — the agreed sequence of levels at which an unresolved issue is raised, with time limits at each step.

Substation and Grid Construction Site Leadership Day by Day

Day 1: The Power Project Leadership Context

- Power Project Life Cycle — Where Leadership Effort Shifts From Award to Energisation
- Utility, EPC and Owner Roles — Clarifying Authority Across Contract Boundaries
- Grid Expansion Pressures — Effect on Outage Scarcity and Timelines
- Leadership Style Inventory — Matching Personal Style to Project Phase
- Project Charter Review — Aligning Sponsor Expectations Early

Day 2: Mapping the Stakeholder Landscape

- Salience Model — Ranking Grid Operators, Landowners and Regulators by Influence
- Power-Interest Grid — Choosing Engagement Intensity per Party
- Stakeholder Network Diagram — Spotting Hidden Influencers on Plant Projects
- Expectation Register — Recording Commitments Made to Each Party
- Community Impact Scan — Anticipating Concerns Over Lines and Substations

Day 3: Communicating Technical Risk

- Audience Analysis — Tailoring Protection and Outage Messages to Listeners
- Plain-Language Risk Briefing — Explaining Energisation Hazards to Non-Engineers
- Pyramid Principle — Structuring Board Reports Around the Decision Needed
- Visual Progress Dashboards — Showing Schedule Float and Critical Interfaces
- Difficult News Script — Announcing Delays Without Losing Trust

Day 4: Engagement Planning for Outages and Connections

- Outage Request Planning — Securing Windows From System Operators
- Connection Agreement Milestones — Coordinating With Network Owners
- Customer Interruption Notices — Managing Affected Industrial and Residential Users
- Engagement Calendar — Sequencing Meetings Against the Construction Schedule
- Feedback Loop Design — Capturing Stakeholder Responses Into Decisions

Day 5: Interest-Based Negotiation

- Principled Negotiation Method — Separating Positions From Interests on Variations
- BATNA and Reservation Point Analysis — Setting Walk-Away Limits
- Zone of Possible Agreement Mapping — Finding Room on Access Disputes
- Concession Planning — Trading Time, Scope and Resources
- Negotiation Role Play — Settling a Contractor Delay Claim

Day 6: Conflict Across Disciplines and Contractors

- Thomas-Kilmann Conflict Modes — Choosing a Response to Site Disputes
- Interface Register — Resolving Civil, Electrical and Protection Boundaries
- Root Cause Dialogue — Uncovering Drivers Behind Recurring Clashes
- Escalation Ladder Design — Setting Levels and Time Limits
- Mediation Techniques — Restoring Working Relationships After Disputes

Day 7: Leading Multidisciplinary Site Teams

- Team Formation Stages — Accelerating New Commissioning Crews
- Situational Leadership Model — Adjusting Direction to Team Maturity
- Delegation Matrix — Assigning Authority for Permits and Switching
- Safety Leadership Conversations — Reinforcing Stop-Work Authority
- Coaching Dialogue — Developing Junior Engineers Into Site Leads

Day 8: Decision Making Under Pressure

- Decision Rights Matrix — Clarifying Who Approves Changes
- Options Appraisal Grid — Weighing Recovery Paths After Equipment Delays
- Cognitive Bias Checks — Avoiding Sunk-Cost Decisions on Failing Plans
- Crisis Huddle Format — Coordinating Response to Site Incidents
- Decision Log — Recording Rationale for Later Claims and Audits

Day 9: Influence With Executives and Clients

- Influence Without Authority Model — Building Reciprocity With Client Managers
- Executive Briefing Note — Securing Sponsor Support for Recovery Plans
- Coalition Building — Aligning Allies Before Steering Meetings
- Trust Equation — Strengthening Credibility With Asset Owners
- Steering Committee Simulation — Defending a Revised Energisation Date

Day 10: Practising the Site Leadership Playbook

- Salience Map Refresh — Applying Day 2 Methods to a Live Project
- Negotiation Plan — Applying Interest-Based Tactics to an Open Variation
- Conflict Response Plan — Applying Escalation Rules to a Current Interface
- Peer Challenge Panel — Testing Plans Against Colleague Scenarios
- Site Leadership Playbook — Completing the Plan for Sponsor Sign-Off

Applying Substation and Grid Construction Site Leadership After the Course

- Run a salience mapping session with the project team and update the expectation register before the next outage request.
- Use the principled negotiation method to prepare the next variation or access discussion, recording the BATNA and concession plan in the decision log.

Substation and Grid Construction Site Leadership Questions FAQ

What is substation and grid construction site leadership, and why does it matter now?

It is the set of people skills that lets an engineering lead steer utilities, contractors and communities towards timely decisions. It matters now because grid expansion puts more parties and scarcer outage windows into every project, so influence shapes schedule and safety.

Which roles gain most from substation and grid construction site leadership skills?

Project managers, engineering managers, owner representatives and contractor leads gain most. You benefit if you coordinate several disciplines, negotiate outages or variations, or report project status to executives and clients.

How does a substation and grid construction site leadership course differ from a general project management course?

It focuses on people and influence rather than scheduling or cost control. A general project management course teaches planning methods; this course applies negotiation, conflict handling and engagement to substation, line and plant projects with sector cases.

What do you bring back from substation and grid construction site leadership training?

You bring back a playbook for your own project. It holds a salience map, an engagement calendar, a negotiation plan for an open variation and an escalation ladder, ready to share with your sponsor and team.

Substation and Grid Construction Site Leadership: The Way Forward

The Site Leadership Playbook first informs how the next outage window or variation is negotiated. Project managers, site leads and commercial leads use it together to agree who engages each party and when. After its first use, the escalation ladder and expectation register are worth revisiting, since stakeholder salience changes as a project moves from construction into commissioning and energisation.