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COURSE BROCHURE

Power Infrastructure Business Management Training Course

4 – 8 April 2027
Cairo

jupiterprime.uk

info@jupiterprime.uk

Registered in the United Kingdom and Saudi Arabia

Power Infrastructure Business Management Training Course

Ref: 2621_99681 **Date:** 4 – 8 April 2027 **Location:** Cairo **Fees:** 4000 GBP

Power Infrastructure Business Management is a 1-week training course for engineers stepping into management roles at generation, transmission, distribution and industrial plant organisations, and each participant leaves with an infrastructure business improvement plan. Capital-heavy assets, tighter tariffs and ageing workforces now demand that technical leaders argue in the language of cash flow, contracts and people as well as megawatts. Jupiter Prime Training runs this course for power infrastructure business management.

Why Power Infrastructure Business Management Matters Now

Three forces press on power and industrial infrastructure owners at once: decarbonisation is reshaping the generation mix and the investment pipeline, asset owners and lenders expect sharper returns from every capital outlay, and experienced engineers are retiring faster than replacements arrive. An organisation whose engineering managers read a business case, negotiate a contract variation and lead a mixed crew keeps outages short, budgets credible and lenders confident. The course rests on discounted cash flow appraisal, whole-life costing and structured stakeholder mapping.

Who Gains Most from Power Infrastructure Business Management

- Engineers who now hold a budget for a substation, plant unit or network area
- Specialists who prepare or defend capital requests for refurbishment and expansion
- Site leads who manage contractors, vendors and service agreements
- Maintenance and operations heads who balance crew rosters, skills and safety
- Project engineers moving from design work into commercial responsibility

A utility or industrial site sending several new section heads together gains a shared language for investment and risk.

Power Infrastructure Business Management Capabilities

Participants turn engineering judgement into commercial arguments that finance colleagues accept.

- Assess the commercial position of an asset portfolio — the priorities agreed with senior leadership
- Calculate net present value, payback and whole-life cost — the capital committee decision
- Weigh contract forms, risk allocation and variation clauses — the delivery route for plant works
- Build a stakeholder map — the engagement sequence before major outages
- Design crew structures, skills matrices and succession cover — the workforce decision for a site
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Communicate performance through cost, availability and safety indicators — the monthly review with directors

Key Power Infrastructure Business Management Terms

- Net Present Value — future cash flows of an option discounted to today, used to compare investments.
- Whole-Life Cost — every cost of an asset from purchase to disposal, including maintenance and outages.
- Capital Expenditure — spending that creates or extends an asset such as a transformer, turbine or feeder.
- Operating Expenditure — recurring yearly spend on running assets, staff and services.
- Risk Allocation — the contract decision on which party carries each delivery, price or performance risk.
- Asset Availability — the share of time a unit or line can deliver its rated service.

Power Infrastructure Business Management Day by Day

Day 1: Strategy for Power and Industrial Assets

- Value Chain Mapping of Generation, Networks and Plant — Where the Organisation Earns and Spends
- Strategic Objective Cascades for Engineering Units — Linking Section Goals to Company Priorities
- Decarbonisation and Demand Scenarios — Testing the Asset Plan Against Future Load
- Peer Benchmarking of Cost and Availability — Setting Credible Improvement Targets
- Strategy Map for an Asset Portfolio — Choosing Which Assets Lead Growth

Day 2: Finance for Engineering Managers

- Reading Utility Income Statements and Balance Sheets — Spotting Margin Pressure
- Capital and Operating Expenditure Budgets — Defending Next Year's Spending Request
- Discounted Cash Flow and Net Present Value — Ranking Refurbishment Against Replacement
- Whole-Life Costing of Transformers and Rotating Plant — Exposing Hidden Ownership Costs
- Sensitivity Tables for Fuel, Load and Interest Rates — Showing Directors the Downside

Day 3: Contracts, Suppliers and Risk

- Turnkey, Design-Build and Service Contract Forms — Matching Delivery Route to Project Risk
- Risk Allocation and Liquidated Damages Clauses — Protecting Schedule and Output
- Variation and Claims Handling on Plant Works — Settling Disputes Before Escalation
- Long-Term Service Agreements for Turbines and Substations — Balancing Price Against Availability
- Supplier Performance Scorecards — Deciding Renewal, Rebid or Termination

Day 4: Leading People and Stakeholders

- Stakeholder Mapping for Outages and Expansions — Sequencing Engagement With Owners and Communities
- Crew Structures and Skills Matrices — Covering Critical Roles on Every Shift
- Succession Cover for Retiring Specialists — Protecting Knowledge of Ageing Plant
- Safety Leadership Conversations on Site — Keeping Production Pressure From Overriding Controls
- Performance Indicator Packs for Directors — Reporting Cost, Availability and Incidents Together

Day 5: Practising the Infrastructure Business Improvement Plan

- Portfolio Diagnosis Using the Strategy Map — Selecting the Improvement Priority
- Investment Case With Net Present Value and Sensitivities — Funding the Chosen Option
- Delivery Route and Contract Risk Register — Securing the Works
- Stakeholder and Workforce Actions — Preparing People and Partners for Change
- Infrastructure Business Improvement Plan Presentation — Gaining Approval From a Mock Board

Applying Power Infrastructure Business Management After the Course

- Rebuild one pending capital request for a substation, unit or feeder with whole-life cost and net present value.
- Score the top three suppliers or service contractors on cost, availability and safety and agree actions with procurement.

Power Infrastructure Business Management Questions FAQ

What is power infrastructure business management and why does it matter now?

Power infrastructure business management is the practice of running generation, network and industrial plant assets as a business. It matters now because decarbonisation, investor scrutiny and retiring staff make commercial judgement as important as technical skill for engineering managers.

Which roles gain most from power infrastructure business management training?

Newly appointed engineering managers gain most. Section heads, site leads and project engineers who now hold budgets, contracts or crews use its methods in their next planning cycle.

How does power infrastructure business management differ from a general management course?

It differs by applying every method to substations, turbines, feeders and process plant. A general management course treats finance and people in the abstract.

What do you bring back from power infrastructure business management training?

You bring back an improvement plan for your own asset area. It combines a strategy map, a funded investment case, a contract risk register and workforce actions.

Power Infrastructure Business Management: The Way Forward

The infrastructure business improvement plan first informs which asset priority earns funding in the next budget round. Section heads, finance partners and site directors use it to align spending, contracts and crew changes. After its first use, revisit the workforce actions, since people readiness often decides whether an approved investment delivers its expected availability.