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COURSE BROCHURE

Electrical Maintenance Spend Optimisation Training Course

15 – 19 March 2027
London

Electrical Maintenance Spend Optimisation Training Course

Ref: 2602_98959 **Date:** 15 – 19 March 2027 **Location:** London **Fees:** 5900 GBP

Electrical Maintenance Spend Optimisation is a 1-week training course for electrical maintenance supervisors and engineers who decide how money is spent on switchgear, transformers, motors, cables and protection, and each participant builds an electrical maintenance cost plan. Ageing electrical fleets, tighter outage windows and scarce specialist technicians mean every overhaul, spare and test must earn its place. Jupiter Prime Training delivers this Electrical Maintenance Spend Optimisation course.

Why Electrical Maintenance Spend Optimisation Matters Now

Three groups shape electrical maintenance budgets today. Finance teams ask for evidence that each overhaul reduces risk rather than following habit. Operations managers resist long shutdowns, shrinking the windows for breaker servicing and transformer work. Insurers and safety officers expect protection testing and thermographic surveys to stay on schedule whatever the budget. Organisations that align spend with failure consequence keep supply secure at lower cost; those that cut evenly across the board defer the wrong tasks and pay later through unplanned trips. The course rests on manufacturer maintenance guidance, condition-based maintenance principles and recognised life-cycle costing practice.

Who Gains Most from Electrical Maintenance Spend Optimisation

- Supervisors who set task intervals for breakers, relays and motor control centres
- Engineers who justify transformer refurbishment or replacement to finance
- Planners who scope electrical outages and contractor packages
- Store and spares coordinators who hold critical electrical components
- Reliability staff who track electrical failure modes and repeat trips

An electrical maintenance section from a utility substation group, a hospital estate or a process plant gains most when its supervisors, planners and spares holders attend together and agree one basis for ranking spend.

Electrical Maintenance Spend Optimisation Capabilities

Participants learn to tie every electrical maintenance line to a failure consequence and a measurable return.

- Assess criticality of switchgear, transformers and drives — the ranking that sets maintenance priority
- Weigh time-based, condition-based and run-to-failure options per asset class — the strategy owner
- Calculate life-cycle cost for refurbish versus replace choices — the capital approval board
- Specify critical electrical spares and stock levels — the stores and finance controllers
- Design outage scopes that bundle electrical tasks efficiently — the operations manager

- Build a spend tracking sheet with variance triggers — the budget holder

Key Electrical Maintenance Spend Optimisation Terms

- Asset criticality — a ranking of electrical equipment by the safety, supply and cost consequence of its failure.
- Condition-based maintenance — intervention triggered by measured condition, such as insulation readings or thermal images, rather than fixed intervals.
- Life-cycle cost — the total cost of owning an asset from purchase through operation, maintenance and disposal.
- Insurance spare — a high-value, long-lead component held to restore supply after a rare but severe failure.
- Outage scope — the defined set of tasks, resources and isolations planned for one equipment shutdown.
- Cost variance — the gap between budgeted and actual maintenance spend, used to trigger corrective action.

Electrical Maintenance Spend Optimisation Day by Day

Day 1: Where Electrical Money Goes

- Spend Breakdown by Asset Class — Locating Cost in Switchgear, Transformers and Motors
- Failure History From Trip Logs — Linking Spend to Real Electrical Faults
- Asset Criticality Ranking — Setting Which Equipment Deserves Priority Funding
- Hidden Costs of Unplanned Trips — Quantifying Lost Production and Supply
- Labour and Contractor Mix — Deciding Which Electrical Skills to Keep In-House

Day 2: Choosing Electrical Maintenance Strategies

- Time-Based Versus Condition-Based Tasks — Matching Effort to Failure Pattern
- Insulation and Thermographic Surveys — Replacing Fixed Intervals With Condition Triggers
- Transformer Oil Analysis Regimes — Extending Intervals Safely on Healthy Units
- Run-to-Failure Candidates — Accepting Risk on Low-Consequence Electrical Items
- Protection Relay Test Intervals — Balancing Assurance Against Outage Demand

Day 3: Life-Cycle Cost and Renewal

- Life-Cycle Cost Model for Switchgear — Comparing Retrofit With Full Replacement
- Transformer Refurbishment Economics — Choosing Rewind, Repair or New Unit
- Motor Repair Versus Replace Rules — Setting Thresholds for Repair Shop Decisions
- Obsolescence Tracking for Electrical Components — Timing Renewals Before Support Ends
- Energy Loss Costing — Adding Efficiency Gains to Renewal Cases

Day 4: Spares, Outages and Budget Control

- Critical Spares Assessment — Sizing Stock for Breakers, Relays and Bushings
- Insurance Spares Pooling — Sharing Long-Lead Items Across Sites
- Outage Scope Bundling — Grouping Electrical Tasks Into Fewer Shutdowns
- Budget Phasing and Variance Triggers — Acting Early on Overspend Signals
- Contractor Rate Benchmarking — Testing Quotes for Electrical Service Packages

Day 5: Practising the Electrical Maintenance Cost Plan

- Criticality Scoring of a Case Substation — Applying the Ranking to Real Assets
- Strategy Assignment per Asset Class — Fixing Task Types and Intervals
- Renewal Shortlist With Life-Cycle Figures — Prioritising Capital Requests
- Spares and Outage Schedule — Aligning Stock With Planned Shutdowns
- Electrical Maintenance Cost Plan Assembly — Presenting Spend to Finance

Applying Electrical Maintenance Spend Optimisation After the Course

- Lead a criticality ranking of one substation or motor control centre and reassign task intervals from the results.
- Run a critical spares review with stores, retiring obsolete stock and listing long-lead items to pool.

Electrical Maintenance Spend Optimisation Questions FAQ

What is electrical maintenance spend optimisation and why does it matter now?

It is the practice of directing electrical maintenance money to the tasks that most reduce failure risk. Ageing fleets and shorter outage windows make blanket intervals and even budget cuts too costly.

Which roles gain most from electrical maintenance spend optimisation training?

Electrical maintenance supervisors and engineers gain most, along with outage planners and spares coordinators who control where electrical money is committed.

How does electrical maintenance spend optimisation training differ from a general maintenance cost course?

It applies cost methods only to electrical equipment. General maintenance cost courses span mechanical and civil assets, while this one works with insulation readings, relay test intervals, transformer oil results and switchgear renewal choices.

What do you bring back from electrical maintenance spend optimisation training?

You bring back a costed plan for your own electrical assets. It holds a criticality ranking, assigned strategies, a renewal shortlist and a spares and outage schedule.

Electrical Maintenance Spend Optimisation: The Way Forward

The electrical maintenance cost plan first informs which tasks keep their funding in the next budget round. Supervisors, finance partners and outage planners use it to agree priorities across switchgear, transformers and drives. After its first cycle, revisit the criticality scores against actual trip history, since real failures often shift which assets deserve the most attention.