
Electrical Asset Work Management: Outage Slots, Crew Loading, Backlog and Budgets Training Course

18 – 22 July 2027
Kuala Lumpur





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Ref: 286_20192 Date: 18 – 22 July 2027 Location: Kuala Lumpur Fees: 4000 GBP

Programme Summary

Electrical asset work management is the subject of this five-day training course for maintenance, engineering and asset managers at managerial level, ending in an electrical work management plan for one site. Electrical outages are scarce, crews are limited and budgets are fixed, so work that is poorly sequenced either waits too long or costs too much. The approach moves from work definition and priority, through outage slots and crew loading, to backlog and spend control, and then to a worked plan. Mars Training Centre UK delivers this programme in electrical asset work management.

The Business Case

Electrical work competes for the same short outage windows, the same skilled crews and the same annual budget. When requests are not defined, ranked and sequenced, urgent jobs displace planned ones, overtime grows and the backlog hides risk. Organisations that plan packages early and report spend against work can defend their maintenance budget with evidence.

- Planned Work Completion: Rises as packages are defined, kitted and sequenced before the outage slot opens.
- Maintenance Cost Variance: Narrows as labour, material and contractor spend are forecast against each work package.
- Electrical Backlog Age: Falls as work is ranked by consequence and cleared in a visible order.

Principles and Evidence Base

- ISO 55001: Its asset management system requirements shape the link between asset risk, planned work and spend used in Sessions 1 and 5.
- Pareto Analysis: It separates the few work types that drive most backlog and cost, applied in Session 4.
- Critical Path Method: It sequences tasks inside a constrained outage and is applied in Session 2.
- Capacity Loading: It compares required labour hours with available crew hours and is applied in Session 3.

Intended Participants

- Maintenance managers who own the electrical work programme and its annual budget.
- Engineering managers who approve outage scope and technical priority.
- Asset managers who balance risk, availability and spend across electrical equipment.
- Supervisors of planners and schedulers who build work packages.



The programme serves power utilities, oil and gas facilities, manufacturing sites and large building operators.

Learning Outcomes

1. Participants will be able to classify electrical work requests by consequence, urgency and outage need.
2. Participants will be able to construct work packages with scope, duration, labour, material and permit needs.
3. Participants will be able to sequence packages inside a constrained outage slot.
4. Participants will be able to evaluate crew loading against available labour hours.
5. Participants will be able to prioritise a backlog and justify the order of release.
6. Participants will be able to justify an electrical maintenance budget with a forecast and variance view.

Programme Structure

Day 1: Electrical Asset Work Management Foundations

How is electrical work defined, ranked and connected to asset risk?

- Work Request Intake and Screening Form
- Consequence and Urgency Priority Matrix
- ISO 55001 Link Between Risk, Work and Spend
- Work Package Scope Template
- Outage Need Classification

Day 2: Outage Slots and Sequencing

How is a short outage slot filled with the right work in the right order?

- Outage Calendar and Slot Register
- Critical Path Method for Outage Tasks
- Isolation and Permit Sequence Chart
- Material and Tool Readiness Checklist
- Contingency and Overrun Rules

Day 3: Crew Loading and Weekly Scheduling

How are labour hours matched to the work that is due?

- Capacity Loading Table
- Skill and Authorisation Matrix
- Contractor and In-House Split Rules
- Weekly Schedule Board
- Schedule Compliance Review



Day 4: Backlog and Budget Control

How are backlog and spend measured and brought under control?

- Pareto Analysis of Backlog and Cost
- Backlog Ageing and Release Rules
- Work Package Cost Estimate
- Forecast and Variance Report
- Deferral Risk Register

Day 5: Applying Electrical Asset Work Management to One Site

Is the work management plan ready for the maintenance and finance leads to approve?

- Applying the Session 1 Priority Matrix to a Site Work List
- Fitting Packages Into the Session 2 Outage Slot Register
- Testing the Session 3 Capacity Table on the Weekly Schedule
- Applying the Session 4 Release Rules to the Backlog
- Completing the Electrical Work Management Plan

Methodology

The programme is built around structured exercises on a shared site case. Participants take a raw list of electrical work requests, rank it, build packages, load crews, fit work into outage slots and cost the result in small teams. Each team then defends its schedule and budget to a simulated review panel.

- Suggested activity: Sequencing six packages into a twelve-hour switchgear outage.
- Suggested activity: Loading a crew calendar and finding the week that cannot be met.
- Suggested activity: Building a forecast and variance view for a mixed backlog.

Capstone Output

Each participant completes an electrical work management plan for one site. It contains a ranked work list, work package templates, an outage slot register, a crew loading table, a backlog release rule set and a forecast and variance view. It is used to brief the maintenance and finance leads.

Frequently Asked Questions

Is electrical asset work management suitable for managers without a scheduling software background?

Yes. Electrical asset work management is set at managerial level and assumes responsibility for maintenance work or budgets, not expertise in scheduling software.



Which standard does electrical asset work management rest on in this programme?

Electrical asset work management rests on ISO 55001 for asset management systems, supported by Pareto analysis, critical path method and capacity loading.

How is the electrical asset work management plan used at work?

You use the electrical asset work management plan to brief maintenance and finance leads, agree outage slots and support the budget discussion.

How does electrical asset work management differ from a programme on general maintenance strategy?

Electrical asset work management plans and costs work already identified, while a maintenance strategy programme decides which tasks and intervals to adopt.