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COURSE BROCHURE

# Electrical Safety Management for Supervisors Training Course

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Geneva

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Registered in the United Kingdom and Saudi Arabia

# Electrical Safety Management for Supervisors Training Course

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Electrical Safety Management for Supervisors is a 1-week training course for electrical supervisors and safety officers who direct energised and de-energised work, built around an electrical safety management checklist that each participant drafts for their own site. Ageing installations, contractor-heavy shutdowns and tighter scrutiny of incident records are pushing organisations to show that electrical risk is controlled by routine, not by luck. Jupiter Prime Training presents Electrical Safety Management as a supervisory discipline.

## Why Electrical Safety Management Matters Now

Three pressures shape electrical safety supervision today. Maintenance windows are shorter, so isolation and permit steps are tempted to shrink. Workforces mix in-house electricians with contractors whose competence is harder to verify. An organisation that supervises electrical work well avoids burns, fatalities, equipment loss and unplanned outages; one that handles it badly faces investigations, stoppages and lasting harm to its people. The course rests on the hierarchy of risk controls, recognised safe isolation practice and documented permit-to-work arrangements.

## Who Gains Most from Electrical Safety Management

- Supervisors who authorise and sign off isolations, permits and energised work at shift level
- Safety officers who audit electrical work and investigate shocks, flashes and near misses
- Maintenance leads who plan shutdown scopes and assign competent electricians to tasks
- Contractor coordinators who check that visiting crews follow site electrical rules
- Facilities supervisors responsible for switchrooms, distribution boards and portable equipment

Sites gain most when a supervisor and a safety officer from the same operation attend together, so permit authority and audit follow-up share one view of electrical risk.

## Electrical Safety Management Capabilities

Participants practise the controls between a written electrical rule and safe hands at a live panel.

- Assess shock and arc flash hazards for a planned task — whether work proceeds de-energised or energised
- Apply a lock, tag and prove-dead sequence — sign-off of safe isolation
- Specify permit conditions and hand-back steps — control of multi-crew electrical work
- Calculate approach boundaries and select protective clothing — protection of the person at the panel
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Test the competence of electricians and contractors — authorisation of who may do which task
- Build an electrical safety management checklist — site audits and leadership assurance

## Key Electrical Safety Management Terms

- Safe isolation — disconnecting, securing and proving equipment dead before work, so that no source can re-energise it unexpectedly.
- Permit to work — a written authorisation stating the equipment, isolation points, precautions and people allowed to carry out a defined task.
- Arc flash — a sudden release of heat and light from an electrical fault through air, capable of severe burns at a distance.
- Incident energy — the heat a worker could receive from an arc at a set working distance, used to choose protective clothing.
- Approach boundary — a marked distance from exposed live parts that only authorised, protected people may cross.
- Competent person — someone whose training, experience and assessment show they can perform a named electrical task safely.

## Electrical Safety Management Day by Day

## Day 1: Electrical Hazards and Supervisory Duty

- Shock, Burn and Arc Injury Mechanisms — Which Hazards Dominate Each Site
- Electrical Incident Case Reviews — Patterns Behind Supervisory Failures
- Supervisor Duty of Care — Limits of Delegated Electrical Authority
- Hierarchy of Risk Controls — Removing Energised Work Where Possible
- Electrical Hazard Register — Prioritising Equipment for Control

## Day 2: Hazard Assessment and Safe Isolation

- Task-Based Electrical Risk Assessment — Energised Versus De-Energised Decision
- Lock, Tag and Prove-Dead Sequence — Confirming Zero Energy Before Contact
- Voltage Indicator Proving Units — Trusting the Absence-of-Voltage Test
- Stored Energy and Back-Feed Sources — Hidden Re-Energisation Routes
- Isolation Point Schedules — Coordinating Multiple Locks on One Circuit

## Day 3: Permits and Arc Flash Protection

- Electrical Permit Issue and Hand-Back — Control of Multi-Crew Tasks
- Sanction-for-Test Arrangements — Safe Re-Energisation During Testing
- Incident Energy Labels — Selecting Arc-Rated Clothing Categories
- Shock and Arc Approach Boundaries — Barriers, Signage and Attendants
- Insulated Tools and Gloves Inspection — Rejecting Damaged Protective Equipment

## Day 4: Competence and Contractor Assurance

- Electrical Competence Matrix — Matching Tasks to Authorised Persons
- Practical Skills Assessment — Verifying Isolation Ability on the Job
- Contractor Pre-Qualification Checks — Admitting Crews to Electrical Work
- Toolbox Briefings and Task Walk-Throughs — Shared Understanding Before Start
- Near-Miss Reporting and Root Cause — Correcting Weak Electrical Controls

## Day 5: Practising the Electrical Safety Management Checklist

- Switchroom Inspection Exercise — Applying Hazard Register Priorities
- Simulated Isolation and Permit Audit — Testing Lock and Permit Records
- Arc Flash Readiness Review — Checking Labels, Clothing and Boundaries
- Competence Record Sampling — Confirming Authorisations Match Real Tasks
- Electrical Safety Management Checklist — Final Site-Ready Version

## Applying Electrical Safety Management After the Course

- Run a lock, tag and prove-dead audit on three recent isolations and close any gaps in the isolation point schedules
- Compare the electrical competence matrix with current authorisations and withdraw or renew any that no longer match assessed skills

## Electrical Safety Management Questions FAQ

### What is Electrical Safety Management and why does it matter now?

Electrical Safety Management is the supervisory control of shock and arc hazards through assessment, isolation, permits and competence. It matters now because shorter shutdowns, mixed contractor crews and closer scrutiny of incidents leave little room for informal electrical practice.

### Which roles gain most from Electrical Safety Management training?

Electrical supervisors and safety officers gain most. You benefit if you authorise isolations, issue permits, audit switchrooms or decide which electricians and contractors may carry out energised or de-energised tasks.

### How does Electrical Safety Management differ from an isolation or arc flash course?

Electrical Safety Management looks at the whole supervisory system rather than one technique. Specialist courses go deep into isolation procedure or arc flash calculation; this one links hazard assessment, permits, protection and competence into routines a supervisor checks every shift.

### What do you bring back from Electrical Safety Management training?

You bring back a site checklist covering hazards, isolation, permits, arc flash protection and competence. You also return with audit methods for testing those controls.

## Electrical Safety Management: The Way Forward

The electrical safety management checklist first informs whether the next shutdown can start with isolations, permits and protective equipment in order. Supervisors use it before work and safety officers use it during audits, in utilities and manufacturing plants. After its first use, revisit how competence is assessed, since authorisations drift faster than equipment changes.