

Job Description

Electrical Engineer – Healthcare / Hospital Estates (HTM Level 3)

Job Title

Electrical Engineer – Healthcare Estates

Reports To

Head of Estates / Estates Manager

Location

Hospital / Healthcare Site

Job Purpose

To support the safe, effective and compliant operation of the hospital estate by delivering electrical maintenance, fault diagnosis, repair and minor works across a range of building services systems. The role will ensure that electrical plant, equipment, infrastructure and associated systems are maintained in accordance with statutory requirements, HTM guidance, site procedures and contractual obligations.

The Electrical Engineer will play a key role in maintaining critical healthcare systems, supporting statutory compliance, responding to reactive issues, undertaking planned preventative maintenance, and assisting with the delivery of a safe environment for patients, staff and visitors.

Key Responsibilities

Planned and Reactive Maintenance

- Carry out planned preventative maintenance (PPM) and reactive maintenance on a wide range of electrical building services systems.
- Diagnose faults and carry out repairs to electrical plant, systems and associated equipment in a safe and timely manner.
- Ensure all maintenance activities are completed in accordance with site procedures, risk assessments, method statements and safe systems of work.
- Support the operation and maintenance of critical hospital electrical infrastructure to minimise downtime and service disruption.
- Escalate defects, risks and system failures appropriately to the Estates Supervisor / Estates Manager.

Electrical Systems Maintenance

Maintain, inspect and repair electrical systems including, but not limited to:

- LV electrical distribution systems, switchgear, distribution boards and final circuits.
- Lighting, emergency lighting and associated control systems.
- UPS systems, IPS systems and standby power infrastructure where applicable.
- Generators and associated changeover systems.
- Fire alarm interfaces and electrical support systems.
- Building Management System (BMS) / BEMS controls interfaces where relevant to electrical services.
- Small power, containment, isolators and local distribution equipment.
- Nurse call power supplies and associated electrical services where applicable.
- Electrical systems serving plant rooms, clinical spaces and non-clinical areas.
- General building electrical services and associated infrastructure.

Compliance and HTM Responsibilities

- Work in accordance with relevant HTM guidance, including but not limited to HTM 06-01, HTM 06-02 and other applicable healthcare engineering standards.
- Ensure electrical works are completed in accordance with the Electricity at Work Regulations, BS 7671 and site-specific safe systems of work.
- Support compliance with statutory and mandatory requirements relating to healthcare estates and engineering services.
- Ensure all work is undertaken in accordance with permit-to-work systems, isolation procedures and site safety rules.
- Maintain accurate maintenance records, service reports and compliance documentation.
- Identify and report non-compliance, plant condition concerns and lifecycle replacement requirements.
- Support audits, inspections and technical reviews by providing maintenance records and technical input as required.

Health, Safety and Risk Management

- Work safely at all times and in accordance with the Health and Safety at Work Act, Electricity at Work Regulations, COSHH, asbestos procedures and site-specific safe systems of work.
- Comply with electrical isolation procedures, lock-off arrangements and permit-to-work systems.
- Participate in permit-to-work processes including electrical isolations, hot works and confined spaces where authorised and competent.
- Report accidents, incidents, near misses and unsafe conditions in line with company procedures.

- Ensure tools, test equipment and work areas are maintained in a safe and tidy condition.

Contractor and Service Support

- Support specialist subcontractors attending site for servicing, maintenance and repair activities.
- Escort contractors where required and ensure they work in accordance with site rules and permit arrangements.
- Monitor the quality of contractor works and escalate concerns where standards are not met.
- Assist with minor project works, lifecycle replacement activities, testing, commissioning and handback support where required.

Communication and Team Working

- Work closely with the wider Estates team, Helpdesk, Authorised Persons, specialist contractors and site management.
- Communicate effectively with clinical staff, ward teams, service users and colleagues when responding to faults or planned works.
- Provide technical feedback and clear updates on outstanding issues, risks and remedial actions.
- Participate in team meetings, toolbox talks, training and site briefings.

Person Specification

Essential Qualifications / Training

- NVQ Level 3, City & Guilds or equivalent in Electrical Installation, Electrical Engineering, Building Services Engineering or related discipline.
- 18th Edition Wiring Regulations qualification.
- HTM / healthcare estates experience within a hospital or similar critical environment.
- Demonstrable experience working on electrical building services systems.
- Good understanding of healthcare compliance requirements and safe systems of work.
- Experience of PPM and reactive maintenance delivery in a live operational environment.
- Ability to fault-find and repair electrical systems safely and effectively.

Desirable Qualifications / Training

- HTM Level 3 or equivalent healthcare estates / healthcare engineering training.
- C&G 2391 or equivalent inspection and testing qualification.

- AP / CP related training or experience in LV systems, fire alarms, IPS, generators or other relevant electrical disciplines.
- Confined space training.
- IOSH Working Safely or equivalent health and safety training.
- Experience using CAFM / Maximo or similar maintenance management systems.

Knowledge and Experience

- Experience working in a hospital, healthcare, PFI or similarly regulated environment.
- Knowledge of electrical systems associated with acute or community healthcare facilities.
- Understanding of statutory compliance, engineering standards and healthcare maintenance procedures.
- Ability to interpret technical drawings, schematics, O&M information and plant documentation.
- Experience of working with permit systems and electrical isolation procedures.
- Good understanding of critical healthcare electrical infrastructure including standby systems, emergency lighting and essential services.

Skills and Attributes

- Strong fault-finding and problem-solving ability.
- Able to prioritise workload in a busy healthcare environment.
- Good communication and record-keeping skills.
- Able to work independently and as part of a multidisciplinary estates team.
- Flexible approach to supporting operational requirements, including participation in on-call / call-out arrangements where required.
- Professional, reliable and safety-focused.

Additional Requirements

- Must be able to work in a live hospital environment with due regard to patient safety, infection control and service continuity.
- Participation in out-of-hours call-out rota may be required.
- Enhanced DBS may be required depending on site.
- Full UK driving licence desirable if multi-site support is required.

Key Measures of Performance

- Completion of PPMs and reactive tasks within required timescales.
- Compliance with statutory maintenance and record-keeping requirements.
- Quality of fault diagnosis and repair.
- Contribution to system reliability and reduction in repeat failures.
- Safe working practices and compliance with permit / isolation procedures.

- Positive contribution to team performance, audit readiness and service delivery.