



Electrical Inspection & Remedial Works at Prince Charles Hospital

Client Contact: Cwm Taf Morgannwg University Health Board

Contract Value: £50,000

Contract Duration: 6 Months

Scope of the Contract

Location / Service: Prince Charles Hospital, Merthyr Tydfil

Sector: Healthcare

Highland Services were appointed by Cwm Taf Morgannwg University Health Board to undertake a full electrical periodic inspection and remedial works programme at Prince Charles Hospital. Delivered in line with BS7671 standards, the project required extensive coordination across departments to ensure patient care remained uninterrupted. Works were carried out across critical areas such as NICU, Maternity, and Theatres, and delivered in full compliance with healthcare and safety protocols.

Services Delivered

- Electrical periodic inspection and testing of distribution boards
- Out-of-hours operations (evenings, weekends, and night shifts)
- Temporary power supply installations to maintain service continuity
- Full remediation of defects (C1/C2/C3) including RCBO replacement, corrective bonding, and circuit labelling
- Pre-start asbestos surveys and isolation/switching plans
- Principal Contractor duties under CDM including H&S compliance and departmental coordination

Challenges and Mitigation

Challenge 1: Sensitive Clinical Environments

Work was required in high-dependency departments like NICU and Operating Theatres.

Mitigation: Strict infection control protocols and department-specific procedures were followed throughout.

Challenge 2: Out-of-Hours Delivery

Standard working hours were not feasible due to hospital activity.

Mitigation: Works were carried out during evenings, weekends, and overnight, requiring flexible labour management and on-call supervision.

Challenge 3: Continuity of Power Supply

Power isolations risked disrupting essential services.

Mitigation: Temporary electrical supplies were designed and installed to ensure continuous service in all affected departments.

Programme Management

The works were delivered under tight scheduling requirements, with structured coordination alongside the hospital's Estates and Clinical teams. The live healthcare environment demanded a phased and responsive programme to avoid any interruption to hospital services, especially in critical care areas.

Contract Management

Highland Services managed all Principal Contractor duties, including safety planning, compliance, and departmental sign-off. Through effective communication and oversight, the team ensured a smooth workflow across clinical and estates stakeholders.

Performance

All planned inspections and remedial works were delivered within the project duration. In addition, several unscoped distribution boards were identified, agreed with the client, and added to the programme – ensuring comprehensive compliance across all systems without delay.

Impact and Added Value

This project highlights Highland Services' ability to deliver complex electrical compliance work in sensitive, high-pressure healthcare environments. Our collaborative approach, attention to live service continuity, and flexible delivery model made us a trusted partner for this essential NHS infrastructure project.