

## Electrical Safety & Compliance Testing Services

An independent reference for verifying electrical safety and regulatory compliance to international standard



*Field testing of electrical installations and equipment for safety and regulatory compliance, carried out to international standards*

Electrical hazards are unforgiving and rarely visible. A faulty earth, an unprotected circuit or an underrated assembly stays silent until the moment it injures someone or starts a fire. Independent safety and compliance testing confirms that an installation and its equipment protect the people who work with them, and that this protection can be documented to recognised standards.

### What safety testing detects

A structured safety assessment exposes risks before they cause harm:

- Ineffective earthing and protective bonding
- Protective devices that fail to operate
- Exposed live parts and damaged enclosures
- Arc-flash and shock hazards at switchgear
- Unsafe or non-compliant equipment
- Missing labelling, guarding and documentation

### Why compliance testing matters

Verified safety gives an organisation the basis to:

- Protect workers from shock and arc-flash injury
- Reduce fire and electrical-incident risk
- Demonstrate compliance to auditors and insurers
- Avoid penalties, liability and downtime
- Support a safe system of work
- Document due diligence with clear evidence

**Safety that has not been tested is only an assumption, and compliance testing turns it into documented evidence**



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## Scope of Services

Safety and compliance testing carried out by Mizan follows the requirements of IEC 60364, NFPA 70E and the IEC 61557 series, so that results are accurate, repeatable and defensible.

- **Electrical safety inspection**
  - Installation safety inspection and verification
  - Earthing, bonding and continuity testing
  - Insulation resistance and protective-device checks
  - Switchgear and enclosure condition assessment
- **Hazard & equipment assessment**
  - Arc-flash hazard study to IEEE 1584
  - Portable appliance and equipment testing
  - Machinery electrical safety to IEC 60204-1
  - Safety labelling and documentation review
- **Applications**
  - Industrial plants and workshops
  - Commercial and public buildings
  - Hospitals and healthcare facilities
  - Substations and switchgear rooms
  - Workplace safety and compliance audits

## Technical Reports to IEC, IEEE & NFPA Standards

In preparing safety reports, Mizan applies a documentation and analysis methodology aligned with IEC 60364, NFPA 70E, IEEE 1584 and the IEC 61557 series, ensuring results that are clear, traceable and dependable for decision-making.

### The technical reports issued by Mizan include the following:

- Inspection findings recorded against IEC 60364 and NFPA 70E requirements
- Earthing, bonding, insulation and protective-device test results
- Arc-flash incident energy and PPE category determined to IEEE 1584
- Each hazard and non-conformity classified by location, severity and risk
- A clear statement of compliance status against the applicable standards
- Prioritised recommendations for remedial action and re-test intervals



*Testing at energised switchgear is carried out under controlled, standards-based safety procedures*

**A safe, compliant installation is one whose protection has been tested and documented**



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