

Electrical Installation Testing & Verification Services

An independent reference for verifying low-voltage installation safety to international standards



Field verification of low-voltage installations, including new connections and EV charging points, based on international standards

Every fixed electrical installation is a safety system: its job is to deliver power reliably and to protect people and property when a fault occurs. Defects in wiring, earthing or protective devices are rarely visible, yet they decide whether a circuit clears a fault safely or becomes a shock and fire hazard. Independent testing and verification is the only way to confirm that an installation is safe to energise and remains safe in service.

▪ What installation testing detects

A structured verification exposes faults that inspection alone cannot:

- Broken or high-resistance protective conductors
- Degraded or insufficient insulation resistance
- Excessive earth fault loop impedance
- RCDs that fail to trip within safe limits
- Reversed polarity and incorrect connections
- Inadequate earthing and equipotential bonding

▪ Why verification matters

A verified installation gives owners and operators the assurance to:

- Confirm protective devices will operate on a fault
- Energise new installations with confidence
- Detect deterioration before it causes harm
- Reduce shock, fire and downtime risk
- Meet legal and insurance obligations
- Document installation safety at handover

An installation is only safe to energise once testing has proven that its protection will operate when a fault occurs



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Scope of Services

Electrical installation testing carried out by Mizan follows the verification procedures of IEC 60364-6, using methods and instruments compliant with the IEC 61557 series, so that results are accurate, repeatable and defensible.

- **Initial & periodic verification**
 - Visual inspection of the installation
 - Initial verification before energising
 - Periodic verification of installations in service
 - Condition assessment and defect classification
- **Electrical safety measurements**
 - Continuity of protective and bonding conductors
 - Insulation resistance measurement
 - Earth fault loop impedance and fault current
 - RCD operation, earth resistance and polarity
- **Applications**
 - Commercial and residential buildings
 - Industrial plants and workshops
 - Distribution boards and final circuits
 - EV charging points and new connections
 - Pre-handover and compliance verification

Technical Reports to IEC & BS 7671 Standards

In preparing verification reports, Mizan applies a documentation and analysis methodology aligned with IEC 60364-6, the IEC 61557 series and BS 7671, ensuring results that are clear, traceable and dependable for decision-making.

The technical reports issued by Mizan include the following:

- Visual inspection findings recorded against IEC 60364-6 requirements
- Measured continuity, insulation resistance and polarity results
- Earth fault loop impedance and prospective fault current values
- RCD trip-time and trip-current results against permitted limits
- Each non-conformity classified by location, severity and risk
- Clear recommendations on remedial action and re-test intervals



On-site verification combines instrument measurements with systematic inspection and recording

A safe installation is one whose protection has been tested and proven



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