

## Earthing System Inspection & Measurement Services

An independent reference for assessing earthing-system safety to international standards



*Earthing tests compliant with IEC 60364, IEC 62305 and IEEE 80 form the basis for assessing facility safety against electrical and fire hazards*

Proper earthing is the first line of defence against electrical fires. The safety of industrial facilities and large buildings depends on the efficiency of the earthing system and on its ability to discharge short-circuit currents, lightning surges and leakage currents safely and quickly.

### ▪ What a faulty earthing system can cause

Any defect in the earthing system can lead to:

- Overheating of conductors
- Electrical arcing
- Damage to sensitive equipment
- Industrial fires
- Exposure of workers to electric-shock hazards

### ▪ Early detection through inspection

Systematic technical inspection of earthing systems enables early detection of:

- Earthing resistance rising above permitted limits
- Reduced effectiveness of fault-current discharge paths
- Touch and step voltage hazards
- Electrical arcing and fire hazards
- Non-compliance with industrial safety requirements

**Periodic, accurate measurement of the earthing system is a core element of every industrial safety programme**



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## Scope of Services

Earthing tests compliant with IEC 60364, IEC 62305 and IEEE 80 form the basis for assessing facility safety against electrical and fire hazards.

- **Earthing system inspection**
  - Earthing resistance measurement
  - Earthing-conductor continuity testing
  - Assessment of earth bonding points
  - Inspection of earthing rods and grids
- **Industrial & fire safety**
  - Assessment of electric-shock risk
  - Reducing the likelihood of arcing and fire
  - Protection of heavy equipment and machinery
  - Support for electrical protection systems
- **Target sectors**
  - Factories and industrial facilities
  - Construction sites and residential complexes
  - Warehouses and logistics facilities
  - Hospitals and sensitive facilities
  - Power stations and infrastructure

## Technical Reports to IEC, IEEE & NFPA Standards

In preparing technical reports for earthing systems, Mizan applies documentation and analysis aligned with the relevant international standards, ensuring results that are clear, accurate and dependable for safety assessment and technical decision-making.

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

- Earth resistance measurement using approved measurement methods
- Earthing-conductor continuity testing (Continuity Test)
- Analysis of touch and step voltage in sensitive areas
- Inspection of earth bonding points and main conductors
- Assessment of system compliance with fire-safety requirements
- Documentation of non-conformities, their locations and potential impact
- Clear technical recommendations to improve earthing-system efficiency and reduce risk



*Field measurement carried out to recognised international standards*

**Facility safety begins with a reliable earthing system**



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