

Lightning Protection System Testing & Inspection Services

An independent reference for verifying lightning protection integrity to international standards



Field inspection and earth-resistance testing of lightning protection systems, carried out to international standards

A lightning protection system only earns its place by working in the fraction of a second a strike lasts. Air terminals, down conductors and earth electrodes degrade quietly through corrosion, loose joints and changing ground conditions, and a system that looks intact can still fail to carry a strike safely to earth. Independent testing and inspection is the only way to confirm that protection is sound before the storm, not after.

▪ What testing detects

A structured inspection and test campaign exposes hidden weaknesses:

- High or rising earth-termination resistance
- Corroded or broken down conductors
- Loose, damaged or missing bonds and joints
- Air terminals that no longer give cover
- Inadequate equipotential bonding
- Surge protective devices that have failed

▪ Why testing & inspection matters

A verified lightning protection system lets a facility:

- Trust the system to carry a strike to earth
- Protect people, structures and equipment
- Reduce fire and electrical-damage risk
- Catch corrosion and damage before they spread
- Meet insurance and regulatory obligations
- Document protection integrity for the record

A lightning protection system is only proven once its conductors and earth terminations have been tested and found sound



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Scope of Services

Lightning protection testing carried out by Mizan follows the inspection and test requirements of IEC 62305 and NFPA 780, so that results are accurate, repeatable and defensible.

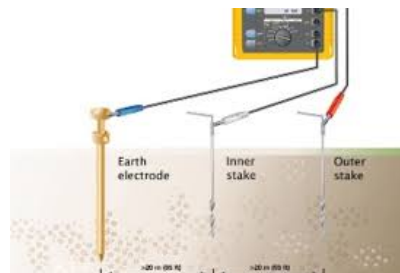
- **Lightning protection system inspection**
 - Air-termination and down-conductor inspection
 - Continuity testing of conductors and joints
 - Bonding and equipotential connection checks
 - Surge protective device (SPD) verification
- **Earth termination testing**
 - Earth-electrode resistance measurement
 - Soil resistivity surveys
 - Fall-of-potential and clamp-on testing
 - Earth-termination continuity and integrity
- **Applications**
 - Commercial and high-rise buildings
 - Industrial plants and fuel installations
 - Telecom towers and transmission masts
 - Hospitals, data centres and critical facilities
 - Substations and utility infrastructure

Technical Reports to IEC, IEEE & NFPA Standards

In preparing test reports, Mizan applies a documentation and analysis methodology aligned with IEC 62305, IEC 62561, IEEE 81 and NFPA 780, 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 62305 requirements
- Earth-termination resistance and soil resistivity results to IEEE 81
- Continuity and bonding measurements for conductors and joints
- Condition of air terminals, down conductors and surge protective devices
- Each non-conformity classified by location, severity and risk
- Clear recommendations on remedial action and re-test intervals



Fall-of-potential testing verifies the earth-termination resistance of the protection system

Effective lightning protection is protection that has been tested and proven



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