

Public Buildings & Institutions Testing

Independent inspection of electrical safety, power quality and HVAC performance for schools, ministries, universities and public facilities in Syria



From distribution boards to lecture halls and emergency-circuits — independent measurement against international standards.

Schools, universities, ministries, courts, hospitals' administrative wings and other public buildings across Syria are being reopened, refurbished and expanded — often combining decades-old wiring with newly installed panels, generators and HVAC plant. In a building used every day by students, staff and citizens, an undetected fault, a tripping main or a stuffy classroom is not just an inconvenience — it is a safety, attendance and operating-cost problem. Mizan provides the independent inspection, power-quality and HVAC performance measurement, and preventive calibration that public-sector owners, facility managers and engineering departments need to confirm that each building is safe, reliable and efficient.

▪ Why It Matters

Public and institutional buildings carry risks that quietly accumulate between inspections:

- Ageing wiring and overloaded panels in occupied buildings cause fires, electrocutions and forced closures.
- Poor power quality and overloaded transformers cut equipment life and increase utility costs paid from public budgets.
- Inadequate ventilation and uncontrolled indoor climate harm health, attendance and productivity in classrooms and offices.
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▪ What We Verify

Mizan inspects, measures and audits the full electrical and environmental chain:

- Safety and compliance of the building's electrical installation.
- Power quality and HVAC performance under real occupancy.
- Preventive inspections and calibration of life-safety and measurement equipment.

Public buildings serve citizens every day — their safety, reliability and efficiency must be measured, not assumed.



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Scope of Services

A structured testing and inspection programme covering schools, universities, ministries, courts, libraries and other public facilities, delivered on site with calibrated instruments and qualified engineers.

- **Electrical Installation Safety & Compliance**
 - Periodic inspection and verification of LV installations per the IEC 60364 series.
 - Low-voltage switchgear and distribution board inspection per IEC 61439.
 - Short-circuit and protection coordination review per IEC 60909.
 - Insulation resistance, continuity and earth-loop impedance measurement per IEC 61557.
- **Power Quality & HVAC Performance Assessment**
 - Class-A power-quality survey at incomers and major panels per IEC 61000-4-30.
 - Voltage-quality assessment at the point of supply per EN 50160.
 - Harmonic-distortion limit verification at the point of common coupling per IEEE 519.
 - Indoor environmental quality, ventilation rates and thermal comfort survey per ASHRAE 62.1 and ISO 7730.
- **Preventive Inspection & Calibration Services**
 - Thermographic survey of MV / LV panels, busbars and transformers to detect hot joints before failure.
 - Earth-electrode resistance and equipotential-bonding measurement per IEEE 81.
 - Lightning-protection system inspection per IEC 62305.
 - Calibration of facility test, measurement and HVAC instruments per ISO 10012.

Technical Reports to IEC, EN, IEEE & ISO Standards

Every site visit is documented in a structured report that ties each measurement to the standard it verifies, identifies non-conformities and gives the facility a clear corrective-action and budget-planning path.

The technical reports issued by Mizan include the following:

- IEC 60364 series electrical-installation inspection and verification report.
- IEC 61439 switchgear and distribution-board inspection report.
- IEC 60364-5-56 emergency and escape-lighting test report.
- IEC 61000-4-30 Class-A power-quality measurement campaign report.
- IEEE 519 harmonic-distortion limit-verification report.
- ASHRAE 62.1 / ISO 7730 indoor environmental quality and thermal comfort report.
- IEC 62305 / IEEE 81 lightning-protection and earthing inspection report.



Reliable installation testing is essential for ensuring the safety, and optimal functionality of a facility's electrical systems.

Safer classrooms, reliable offices, efficient ministries — public buildings that work, measured and proven.



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