Contact: info@applus.com

Electrical inspection

Electrical inspection services involve carrying out periodic, preventive, and regulatory electrical installation inspections to analyse their safety, efficiency, and compliance with regulations, codes, and electrotechnical standards.

We carry out inspections and tests in electrical installations in the assembly phase, in commissioning, and during maintenance, including periodical inspections. Electrical inspection and testing services are key to maintaining the safety, reliability, and technical efficiency of electrical systems and plants.

THE Applus+ SOLUTION

Our expert team of electrical inspectors can review and analyse any electrical installation or network following national and international standards and regulations. We test, measure, analyse, and evaluate the technical aspects inherent to any electrical installation. We identify any critical or serious problem, which allows owners, users, and maintenance personnel to define actions to mitigate any risk. Our measuring and testing equipment goes through rigorous maintenance and calibration processes. We have state-of-the-art equipment such as drones or high-resolution 360º cameras, mobility tools such as the TRAZA+ System, and online monitoring equipment, which allow higher-quality electrical inspections to be obtained more efficiently.

Applus+ has an extensive portfolio of services for the inspection and testing of electrical installations, which includes:

- VT inspections.
- Design and technical documentation review.
- Study, verification, and testing of grounding systems.
- Measurement of step and touch voltages in substations, transformation centers, and high voltage supports.

- Measurement of potential difference between electrical items.
- Measurement of the safety distance for potentially dangerous areas/situations.
- Quality measures in electrical power networks.
- Power supply quality tests.
- Inventories of low voltage installations through the TRAZA+ Platform (GIS).
- Audits and inspections of facilities following regulations, codes, international standards, or owner's criteria.
- Issuance of electrical operation manuals.
- Inventories of electrical connections through georeferencing of connections.
- Verification of energy losses (anti-fraud campaigns).
- Checking of meters and programming of measurement units.
- Thermographic inspection of electrical installations.
- Visual, thermographic, and distance inspection with drones.
- Training.

Target customers

Our electrical inspection services are aimed at companies that generate, transport and distribute electrical energy or any industry with electrical power installations or equipment.

Key customer benefits

The electrical testing service from Applus+ assists clients to:

- Guarantee the electrical safety of processes, people, and goods
- Guarantee the quality of the measurements, avoiding fraud
- Safeguard the normal operation of electrical installations, preventing disturbances to other installations and services
- Improved energy performance and energy efficiency
- Avoid power outages
- Comply with all codes, standards, and current legislation regarding high and low-voltage electrical installations.