

# Electrical Technical Assistance

Electrical technical assistance services help companies to achieve their quality control, budgetary, planning, execution time, safety and environmental objectives. These services range from project management, quality control, electrical works supervision, power quality studies, technical consultancy, forensic analysis and engineering support.



## NUESTRA SOLUCIÓN

Applus+ provides high-level supervision and quality-control services both for new projects and for in-service high-, medium- or low-voltage electrical facilities. These services include project-engineering review and analysis (codes, standards and regulations); technical documentation and specification review; planning/work-schedule management; control of budget deviations; quality assurance; vendor inspection; electrical verification and testing; commissioning assistance and supervision; as-built; and final pre-operation approval.

We provide project management and engineering for electrical projects by managing costs, planning, quality and EHS.

We offer electrical studies, training and technical consultancy in the fields of electrical engineering and electric power systems, using electrical modelling and analysis software (ASPEN, DIGSILENT, SKM POWER TOOLS) for the calculation of load-flow and short-circuit currents; electrical-protection system studies; system-stability studies; and reactive-power studies. Our electrical-engineering services can be tailored to all types of high- and medium-voltage installations, including power lines and substations.

We also work in maintenance management by obtaining oscillographic registers; detecting design and parameterisation mistakes; defining root cause after failures /incidents; and developing predictive and preventive plans.

Our software applications include TRAZA (a maintenance-management system for distribution networks/installations); LINZE (a system for georeferencing MV networks); and SIGRID (an integrated management system for industrial regulations and statutory inspections).

## Cientes

Electrical technical assistance is aimed at any company with electrical installations /equipment which need to supervise electrical works performed either during new electrical constructions or once equipment is in operation. We can, for example, work with transmission and distribution lines, railways (including high-speed trains), subway lines, etc.

## Beneficios

By partnering with Applus+, our clients will:

- Ensure the quality, schedule and cost of their projects
- Reduce the risk of equipment damage
- Reduce operation and maintenance costs
- Increase the reliability of their installations
- Detect potential problems early and therefore prevent system failures