

Engineering electrics

The technical assistance delivered in the electrical engineering services by Applus+ assists companies to achieve their quality control, budgetary targets, planning milestones, execution time, safety compliance and environmental objectives. Our industrial electrical services range from project management, quality control, electrical works supervision, power quality studies, technical consultancy, forensic analysis and engineering support.



THE Applus+ SOLUTION

Applus+ provides high-level supervision and quality-control in our industrial electrical services, both for new projects and for in-service high-, medium- or low-voltage electrical facilities. These services include project review and analysis of the electrical engineering (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.

The project management in electrical engineering provided by Applus+ includes managing costs, planning, quality and OHSE.

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 deliver industrial electrical maintenance by obtaining oscillography 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 geo-referencing MV networks); and SIGRID (an integrated management system for industrial regulations and statutory inspections).

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Target customers

Applus+ delivers industrial electrical services and technical assistance to all companies requiring electrical installation testing and supervision during electrical works, both during new electrical constructions or part of a periodic electrical inspection. We can, for example, work with transmission and distribution lines, railways (including high-speed trains), subway lines, etc.

Key customer benefits

By partnering Applus+ for our expertise in project management services for electrical engineering, 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