Distribution Overhead Transmission Line Equipment Training

Description

Course Description

With the ever-increasing need to dispatch electric energy to growing loads, existing distribution systems grow and expand. As well, new networks are constructed in the new developing residential, industrial and agricultural areas. Thus, large investments are spent to construct a distribution system, such that in typical power systems, 40% of the investments are spent in the distribution system which is double the investment in the transmission system (20%) and as much as the investment in the generation plants (40%). In addition, the consumers are now progressively interested in power quality and an uninterrupted supply, i.e. a reliable distribution system is required.
Therefore, system engineers in the Power Utilities progressively give every care to the distribution system operation and maintenance.

Course Objectives

This course is, thus, devoted to develop the quali?cations of Utilities Electrical Power Engineers and specialists to be capable of properly and efficiently operating and maintaining a power system, with the objective of keeping the system almost free from supply disturbances and system troubles.

Course Outline

- Different Type of Poles.
- Cross-arms, Insulators, Binds and Armor Rods.
- Clearance of overhead distribution line.
- Conductors, Guys and Anchors.
- Modeling of distribution overhead transmission line.
- Disconnects /Cutouts and Air Break Switches.
- Pole Mounted Transformers and voltage regulators (adaptive).
- Reclosers (Adaptive), Interrupters & Sectionalisers.
- Pole Capacitors.
- Surges Arresters.
- Maintenance of Transformers & voltage regulators.

- Common faults.