

Testing, Maintenance & Operation of Electrical Substations

TE194

Course Overview:

This course is aimed at introducing the power-substation layout and design to utility and industrial engineers. The course will cover substation layout, design, grounding and protection. The course will be supported by practical design examples.

Course Objective:

To improve the skills of engineers involved in design, operation and maintenance of electric power substation. A degree in electrical engineering is recommended to gain maximum benefit from the course

Course Outline:

-Introduction

- -Power Systems
- -Substations of Voltages 230 kV and Above -Substation Busbars
- -Substations of Voltages up to 220 kV
- -Transformer, Reactors and Regulators Transformers
- -Reactors
- -Regulators
- -Outgoing and Incoming Overhead Lines
- -Tower Selection
- -Substation Grounding
- -Zones of Protection
- -Circuit Breakers
- -Reclosers, Sectionalizers and Fuses
 - -Lightning Protection

Who Should Attend:

Engineers involved in design, operation and maintenance of power substations. A degree in electrical engineering is recommended to gain maximum benefit.

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Training Language: EN / AR

Training Methodology:

- -Presentation & Slides
- -Audio Visual Aids
- -Interactive Discussion
- -Participatory Exercise
- -Action Learning
- -Class Activities
- -Case Studies
- -Workshops
- -Simulation

