

Course Overview:

The course is intended to provide electric engineers with collective and recent knowledge about generators exciters including: ordering specifications, operation, analysis, maintenance, testing and protection

Course Objective:

The course is intended to provide electric engineers with collective and recent knowledge about generators exciters including: ordering specifications, operation, analysis, maintenance, testing and protection. The information includes both theoretical and practical aspects and will be enhanced with computer software in appropriate sections.

Course Outline:

1. Generator Operation Correct PhasingLoad
CapacityProtectionEarthingInstallationParallel Operation
SynchronizingDocumentation
2. Voltage Control and Voltage Restraint DesignFunction and ApplicationOperating
PrinciplesTesting and CalibrationRestricted Earth Leakage
3. Frequency Control Relays Design and ConstructionFunction and Application
OperationsTesting
4. Relays & Protection DifferentialReverse PowerNegative SequenceLoss of
FieldFrequencyVoltage ControlOver current ControlOver speedRelay Settings
5. Maintenance Safety AuditsSafe Working PracticeProceduresVibrationDiagnostics

Who Should Attend:

Electric utility engineers in various departments deal with interconnected generators testing, protection, operation, stability and control. The course is also suitable for all engineers deal with emergency generators and local generation.

Training Language:

EN / AR

Training Methodology:

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