



Electrical Control Circuits in Transmission & Distribution Systems

Date	Venues	(\$)Fees	Book your seat
24 Mar -28 Mar 2024	Cairo	2900	Register Now

Course Overview:

- Rapid progress in power plants and utilities leads to a parallel needs in distributed control actions in different sites and environments.
- Advanced control systems have created the world's most advanced distribution automation suite, including designing, planning, management, and automatic feeder restoration.
- This course ranges from revision of power utilities needs for local and remote measurements and control for different sites, to the advanced robot manipulation and rapid action execution.

Course Objective:

- Understand the basic concepts of the design of power systems measurement and control.
- Apply different control techniques.
- Know the different methods of systems identifications.
- Analyze linear discrete-time systems.
- Design digital control systems.
- Be familiar with distributed sensor systems.

Who Should Attend?

- Electrical and mechanical engineers and technicians

Course Outline:

- INTRODUCTION TO ELECTRICAL CIRCUITS
- ELECTRICAL COMPONENTS, STANDARDS AND SYMBOLS
- MOTOR AND MOTOR-BRANCH-CIRCUIT PROTECTION
- GENERAL ENGINEERING CONSIDERATIONS
- CONTROL CIRCUITS DESIGN.
- CONTROL AND PROCESS DESIGN CONSIDERATION

- NETWORKS VOLTAGE CONTROL
- LOADS POWER FACTOR CORRECTION
- VOLTAGE RELATION WITH REACTIVE POWER
- VOLTAGE STABILITY INTERRELATION WITH REACTIVE POWER AVAILABLE
- LOADS VOLTAGE CONTROL BY REACTIVE POWER INJECTIONS

Training Methodology:

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



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