



## Electrical Circuits & Control

Date	Venues	(\$Fees	Book your seat
22 Dec -26 Dec 2024	Cairo	2900	<a href="#">Register Now</a>

### 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
- Measurements
- Control: Introduction, Definitions And Modeling
- 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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