



Distributed Control System (DCS)

Date	Venues	(\$Fees	Book your seat
18 Aug -22 Aug 2024	Sharm El-Sheikh	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. 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:

1. FUNDAMENTALS OF CONTROL SYSTEMS
2. FUNDAMENTALS OF MODERN CONTROL SYSTEMS
3. DCS SYSTEM ELEMENTS
4. ELECTRICAL INFRASTRUCTURE FOR THE DCS
5. REVIEW OF COMMUNICATION NETWORKS IN A DCS
6. THE BASIC DCS CONTROLLER AND CONFIGURATION
7. THE DCS OPERATOR INTERFACE
8. DCS ALARM SYSTEM MANAGEMENT
9. DCS DOCUMENTATION

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities

- Case Studies
- Workshops
- Simulation



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