Power Stations Main Electric Generators (Theory, Operation & Control)

Date	Venues	($)Fees	Book your seat
10 Aug -14 Aug 2025	London	5500	Register Now

Course Overview:

Generation power plants are the principle elements in defining networks voltages and frequencies, which are reflected into loads performances and efficiencies. Controlling the generation power plants output voltages and frequencies guarantee stable and reliable system operation. Both corrective and preventive control techniques are to be used in power plants, which are generating hundreds or thousands of megawatts all over the hour.

Course Objective:

The course aims to give the attendant engineer a complete idea about the whole control system of voltage and frequency in power plants, in its connected networks and at load centers. An idea about the known and the projected controls will be put in evidence An idea about the economic generation techniques , besides the optimal controllers are to be given . Computerized controllers will be displayed during the course.

Who Should Attend?

The generation power plant electrical and mechanical engineers are invited to join this course. Power plants operators and designers can attend it

Course Outline:

1. Power Systems Controls

2. Power System Controllers

3. Controlled Generating Power Plants

4. Generators Voltage Control System:

5. Network and Loads Voltage Control Systems

6. Automatic Generation Control (AGC)

7. Load Frequency Control System (LFC)

8. Economic Generation Control (EGC)

9. Optimal and Suboptimal Power System Controls

10. Power System Operation

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion

- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies
- Workshops
- Simulation

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