



MODULE 3

CONTINGENCY ANALYSIS IN ELECTRIC POWER GRIDS USING PSS®E- 12 Hrs

Training Objectives:

Contingency analysis covers a variety of analytical investigations performed by both system planners and operators. The course is designed to expose the participants to understand the contingency analysis, its importance, and how to perform it on the PSS®E platform. The focus shall be on building a generation/demand base case scenarios using different network components such as generator, load, lines, transformers, and shunt devices, Identify the tests (contingencies) to be performed for steady-state analysis and the system conditions that are acceptable or required before and during such contingencies.

Who Will Benefit?

- Employees of Central and State utilities
- Professionals working in the modeling, analysis, and system studies domain of the power & energy industry
- Graduate/Post-graduate students in Electrical/Electrical and Electronics Engineering willing to join the power system industry

Course Content:

- Introduction to load flow analysis and contingency analysis
- Building generation/demand base case
- Large system case-solving techniques
- How to perform contingency using SUB, CON, and MON files in PSS/E
- Analysis and interpretation of contingency results
- Hands-on exercises on each sub-module

Pre-Requisite:

- Basics of Power Systems
- Module 1

Software: Siemens PTI PSS®E

Delivery Mode: In-person-Physical classroom setting

Certification: Yes

Course Duration: 12 Hrs

Course Fee: INR 30,000 (For professionals)
INR 15,000 (for students)



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