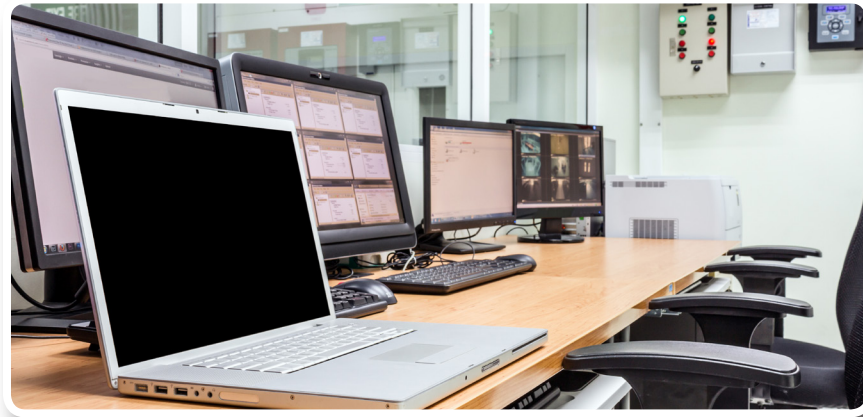


Power System Frequency Impacts and Control

Instructor-Led Training



Power System Frequency Impacts and Control is a one day class designed to teach students the fundamentals of frequency control in the power system. The course focuses on generation, balancing, and loads which can all impact frequency.

The class covers the following topics:

- Frequency definition and SINE wave review
- Generators, poles, speed, and Governor Action
- Interconnection Balance and Balancing Authorities
- Automatic Generation Control (AGC) and Reserves
- NERC Standards and role of System Operator: Reliability-Related Tasks

After reviewing the concepts, students will reinforce the information through simulation activities. Once students are accustomed to the simulator, they will observe how the power system frequency responds to various real-time scenarios, including the effect of a generator trip, and the effect of load, relay operations and system restoration.

After completing this class, students will be able to:

- Define power system frequency
- State AC generator, including Governor control
- Discuss Interconnection balancing concepts
- Analyze the effects of frequency deviations on load, generation, and power flow
- Discuss restoration of frequency and synchronization to the power system
- Demonstrate how to diagnose and resolve voltage issues utilizing voltage control equipment through simulation

This class is designed for power system operators and operating personnel.

CREDIT HOURS:

8:CEH 4:SIM



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