



Meeting the Daily Challenge

Overview:

This course is intended to provide system operators with knowledge and operating principles to survive the daily challenges of operating in the control center. This course is delivered over a 2-day period and includes topics related to Transmission Operations, Generation Operations, and System Switching. The course includes the following content: Operator Responsibilities, Generation Control Concepts, Resource Scheduling, System Reserves, Disturbance Control Standards, Transmission Control Concepts, Voltage Control, Thermal Control, Generation Shift Factors, Switching Considerations, Switching Order Prep, Contingency Analysis, and Emergency Outages. *This course delivery includes extensive interaction with both tabletop exercises and simulator scenarios.*

Target Audience

The target audience includes:

- System personnel that have the responsibility for transmission, generation, or switching operations
- Individuals who desire insight into the daily challenges of Control Room personnel related to transmission, generation, and switching operations

NERC Continuing Education Hours

16.0 CEHs – Total
2.0 CEHs – Standards
16.0 CEHs – Ops Topics
8.0 CEHs – Sim

NERC Emergency Training Requirement

16.0 hours of Emergency Operations

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Course Delivery:

The class activities will include lecture, related exercises, group discussions, simulation demonstrations, and other content related activities. Assessments will be performed to measure the students' progress and effectiveness of the course delivery.

Course Content:

Course curriculum includes:

- System Operator Roles and Responsibilities
- Generation Control
 - Control Area Operations
 - Resource Scheduling
 - Load Forecast
 - ACE
 - Inadvertent
 - Reserves
 - CPS 1 and CPS 2
 - DCS
- Transmission Control
 - Voltage Control Equipment
 - Voltage Control
 - Thermal Control
 - Causes of Thermal Problems
 - Generation shift factors
- Switching
 - Isolating Equipment
 - Switching Preparation
 - System Preparation
 - Contingency analysis – Planned Outage
 - Emergency Outages

Classroom Schedule:

Day 1 - 8:00 AM to 5:00 PM (Lunch provided)

Day 2 - 8:00 AM to 5:00 PM (Lunch provided)

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Attendee Requirements

Attendees must sign-in for the training activity in accordance with the attendance verification process stated:

- Attendees are required to sign-in on the course sign-in sheet
- Attendees are required to provide their NERC SO Certification # on the sign-in sheet, if applicable
- Attendees are required to provide a photo ID as proof of identity
- Attendees must participate in all course activities
- Attendees must successfully complete the activity assessment and obtain a minimum passing grade on the assessment. If the attendee is unsuccessful in the initial assessment, a second opportunity to successfully complete the assessment following remedial instruction will be given.
- Attendees must submit a course evaluation form

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