



Transmission Control



Background

The module is delivered through the OES-NA Virtual Classroom portal. This course is intended to provide system operators with necessary training to understand the concepts of transmission control on the Bulk Electric System.

Course Level

Not Applicable

Target Audience

The class is intended for: new operators to the system that will have the responsibility of transmission control; generation operators who want to expand their knowledge of transmission control; individuals who desire the overall philosophy of controlling transmission and its impacts to the Bulk Electric System; and those individuals trying to understand transmission control as part of NERC Certification Preparation.

NERC Continuing Education Hours

TOTAL: 12.5 CEHs
Standards: 6.5 CEHs
Ops Topics: 12.5 CEHs
Sim: 0.00 CEHs

NERC Emergency Training Requirement

12.5 hours of Emergency Training

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Module Content

The course includes fifteen lessons which cover the following:

Lesson 1: The Transmission System and System Events

Lesson 2: Reactive Power & Distribution Factors

Lesson 3: Congestion, Limits & Stability

Lesson 4: Equipment Failures, Power Flow & Contingency Analysis Programs

Lesson 5: Controlling Actions & Devices

Lesson 6: TOP-001-1: Reliability Responsibilities and Authorities

Lesson 7: TOP-002-2: Normal Operations Planning

Lesson 8: TOP-003-0: Planned Outage Coordination

Lesson 9: TOP-004-1: Transmission Operations

Lesson 10: TOP-005-1: Operational Reliability Information

Lesson 11: TOP-006-1: Monitoring System Conditions

Lesson 12: TOP-007-0: Reporting SOL and IROL Violations

Lesson 13: TOP-008-1: Response to Transmission Limit Violations

Lesson 14: VAR-001-1: Voltage and Reactive Control

Lesson 15: VAR-002-1: Generator Operation for Maintaining Network Voltage Schedules

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Delivery Schedule

Because the module is delivered on an individual basis via the Internet, individuals have the ability to set their own pace and schedule for completion of the module. Registered students are provided with 6 months from the time of registration to complete the module.

Student Requirements

- Students must sign-in using their individual log-in and password to access the module.
- Students are required to provide their NERC SO Certification # and other applicable contact information during the module registration process.
- Students must complete all module material prior to attempting the final assessment.
- Students must successfully earn a 70% grade on the final activity assessment.
- Students must submit a course evaluation form. (Level of completion is not measured, but full completion is desired)

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