



Transmission Control



Background

This online course is delivered through [Spark! By OES-NA](#). 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 course 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: 9.0 CEHs
Standards: 4.0 CEHs
Ops Topics: 9.0 CEHs
Sim: 0.00 CEHs

NERC Emergency Training Requirement

9.0 hours of Emergency Training

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Course Content

The course includes eleven 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-001-4: Transmission Operations

Lesson 7: TOP-002-4: Operations Planning

Lesson 8: TOP-003-3: Operational Reliability Data

Lesson 9: TOP-010-1i: Real Time Reliability Monitoring and Analysis Capabilities

Lesson 10: VAR-001-5: Voltage and Reactive Control

Lesson 11: VAR-002-4.1: Generator Operation for Maintaining Network Voltage Schedules

Delivery Schedule

Because this course is delivered on an individual basis via the Internet, individuals have the ability to set their own pace and schedule for completion of the course. Registered students are provided with 12 months from the time of registration to complete the course.

Student Requirements

- Students must sign-in using their individual log-in and password to access the course
- Students are required to provide their NERC SO Certification # and other applicable contact information during the course registration process.
- Students must complete all online course 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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