



Generation Operations



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 *controlling generation 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 generation control; transmission operators who want to expand their knowledge of generation control; individuals who desire the overall philosophy of controlling generation and its impacts to the Bulk Electric System; and those individuals trying to understand generation control as part of NERC Certification Preparation.

NERC Continuing Education Hours

TOTAL: 10.0 CEHs
Standards: 3.0 CEHs
Ops Topics: 10.0 CEHs
Sim: 0.0 CEHs

NERC Emergency Training Requirement

10.0 hours of Emergency Training

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Course Content

The course includes twelve lessons which cover the following:

Lesson 1: Generation Equipment

Lesson 2: Steam Plants

Lesson 3: Environment and Water

Lesson 4: Turbines and Generators

Lesson 5: Other Generators

Lesson 6: Generation Control

Lesson 7: System Operations & Dispatching

Lesson 8: BAL-001-2: Real Power Balancing Control Performance

Lesson 9: BAL-002-3: Disturbance Control Standard

Lesson 10: BAL-003-1.1: Frequency Response and Frequency Bias Setting

Lesson 11: BAL-005-1: Balancing Authority Control

Lesson 12: EOP-011-1: Emergency Operations

Delivery Schedule

Because the 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 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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