



## Controlling to NERC Standards

### 7514: Interconnection Operations



This course provides substantial information with a focus on the features and requirements of NERC Operating Standards.

#### Course Description

The objective of "System Control" is to bring about an orderly flow of power from the generating source to the load (power consumer) while maintaining the utmost level of safety, reliability and stability throughout the system.

This course discusses the requirements and procedures of "System Control" and the relationships of these requirements and procedures to applicable NERC Standards.

#### Topics Covered

- Interconnection Principles
- Generation Control
- Measuring Generation Control Performance
- Transmission System Reliability
- Interchange Transactions
- System Coordination
- Emergency Operations
- Islanding and Restoration
- Disturbance Reporting

#### NERC Credit

Course Title	CE Hours	NERC	Operations	Simulations	Prof	EOP
7514 - Interconnection Operations	4	4	4	0	4	4

#### Testing

Students must earn a score of at least 70% to receive a passing score on each quiz/examination.



## Controlling to NERC Standards

### 7516: Generation Control & Performance

**Newly Revised**

This course provides the student with a concentration of the major features of those NERC Standards pertaining to generation control and performance.

#### Course Description

Aspects of generation control and performance are discussed throughout the course through the application of relevant NERC Standards pertaining to specific aspects of system control.

#### Topics Covered

- Control Performance Standard
- Disturbance Control Standard
- Frequency Response and Bias
- Time Control Standard
- Automatic Generation Control Standard
- Inadvertent Interchange Standard

#### NERC Credit

Course Title	CE Hours	NERC	Operations	Simulations	Prof	EOP
7516 - Generation Control & Performance	4	4	4	0	4	4

#### Testing

Students must earn a score of at least 70% to receive a passing score on each quiz/examination.



## Controlling to NERC Standards

### 7517: Aspects of System Operations



This course is an excellent way to brush up on those NERC Standards that are important components of many aspects of system operations and to the proper execution of system operations.

#### Course Description

This module deals with aspects of NERC TOP and VAR Standards of control area transmission, operations, coordination and voltage and reactive control. This module will include information on NERC EOP Standards concerning emergency operations with specific reference to TOP-002 concerning the planning requirements for emergency operations and transmissions operations.

This module emphasizes the importance of reviewing each NERC Standard with the addition that particular attention be given to a review of those NERC Standards covered in each segment of the module.

#### Topics Covered

- Operating Reliability Limits and Voltage Control
- System Coordination
- Emergency Operations
- Restoration and Reporting

#### NERC Credit

Course Title	CE Hours	NERC	Operations	Simulations	Prof	EOP
7517 - Aspects of System Operation	4	4	4	0	4	4

#### Testing

Students must earn a score of at least 70% to receive a passing score on each quiz/examination.



## Controlling to NERC Standards

### 7518: System Transactions & Coordination



This module is an essential tool for those involved in any aspect relating to power system transactions and coordination.

#### Course Description

This module stresses information dealing with a number of issues related to the transfer of energy on the power system as well as the background necessary to fully understand interchange schedules that result from transaction tags established by PSEs.

During the latter portions of the course, you will review the provisions of NERC Standard IRO-004 which deals with planning for system operation during both normal and emergency conditions and during system restoration. Finally, you will review NERC’s requirements for reliability coordinators as set out in Standard EOP-006.

#### Topics Covered

- Interchange Transactions and Tagging
- Interchange Schedules
- Reliability Operations Planning
- Reliability Coordinator Procedures

#### NERC Credit

Course Title	CE Hours	NERC	Operations	Simulations	Prof	EOP
7518 - System Transactions & Coordination	4	4	4	0	4	4

#### Testing

Students must earn a score of at least 70% to receive a passing score on each quiz/examination.