

System Protection

ACTIVITY TITLE: System Protection

TARGET AUDIENCE:

<input checked="" type="checkbox"/> Transmission Operator	<input checked="" type="checkbox"/> Market Operator
<input checked="" type="checkbox"/> Reliability Operator	<input checked="" type="checkbox"/> Operations and Planning Eng
<input checked="" type="checkbox"/> Balancing & Interchange	<input checked="" type="checkbox"/> Supervisor/Manager/Support
<input checked="" type="checkbox"/> Generator Operator	<input type="checkbox"/> Other _____

NERC CEHs:

Operating Topics CE Hours: 3.0

NERC Standards CE Hours: 0.0

Simulation CE Hours: 0.0

Professional Related CE Hours: 3.0

NERC EMERGENCY TRAINING HOURS: 3.0 hours

ACTIVITY SUBJECT MATTER:

<input type="checkbox"/> Basic Concepts	<input type="checkbox"/> Power System Restoration
<input type="checkbox"/> Power Transfer	<input type="checkbox"/> Market Operations
<input checked="" type="checkbox"/> System Protection	<input type="checkbox"/> Tools
<input type="checkbox"/> Interconnected Operation	<input type="checkbox"/> Operator Awareness
<input type="checkbox"/> Emergency Operations	<input type="checkbox"/> Policies and Procedures

DELIVERY SCHEDULE: Activity is expected to be delivered over a 3.25 hour period with 3.0 hours intended for material deliveries and activity exercises and .25 hours for activity assessment.

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A. ACTIVITY OVERVIEW

This activity is intended for real-time system operators and support personnel operating on the Bulk Electric System who wish to expand their knowledge and to enhance their skills related to system protection. It is intended to provide attendees with the necessary training to understand the fundamentals of system protection, the construction and operation of system protection devices, the types of relays, and synchronizing equipment.

B. METHOD OF INSTRUCTION

The activity is expected to be delivered in an Instructor Led environment. The activity is expected to be delivered utilizing a PowerPoint presentation in conjunction with the various exercises that are integrated into the material.

C. ACTIVITY OBJECTIVES

Upon completion of this training activity, the trainee shall be able to:

1. Identify the fundamentals of system protection.
2. Define the construction and operation of system protection.
3. Identify the types of relays.
4. Define synchronizing equipment.

D. ACTIVITY CONTENT

1. System Protection Fundamentals
2. Relay Operation
3. Types of Relays
4. Synchronizing Equipment

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E. ASSESSMENT VEHICLE

The activity assessment is accomplished through a multiple choice quiz that addresses the activity objectives and content.

F. MISCELLANEOUS ELEMENTS

None identified for this activity.

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