



## **Emergency Operations: Thinking Our Way Through!**

### **Background**

The class will be delivered over a 2-day period. The class is intended to expand beyond initial training in working through emergency situations. The participants will be required to utilize their knowledge of system operations and apply this knowledge in simulated scenarios that have been developed from real-time system events. The class will be a combination of lecture and group activities. The major portion of the class will be comprised of small group exercises where the group members must work their way through operational situations. Some of the situations will involve the utilization of the Power Simulator system. The situations presented will deal with various system events that include: the loss of transmission or generation facilities, actual or near voltage collapse, transmission loading, and cascading outages.

### **Course Level**

Tier II: Operators with 5 years experience operating on the electric system in system operations or have completed the OES-NA Emergency Identification and Mitigation class.

### **Associated Tier I course:**

Emergency Identification & Mitigation

### **Target Audience**

The class is intended for System Operators who possess the basic knowledge of electric system operation and are familiar with elements of identification and mitigation of system emergencies. This group would include those who have completed the OES-NA Emergency Identification and Mitigation class or those operators who have more than 5 years experience operating on the electric system in system operations.

### **NERC Continuing Education Hours**

16.0 CEHs – Total  
0.0 CEHs – Standards  
16.0 CEHs – Ops Topics  
12.0 CEHs – Sim

### **NERC Emergency Training Requirement**

16.0 hours of Emergency Operations

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### **Class Content**

#### ***Lecture***

The lecture segment will include a short review of actions to take to mitigate specific system events. It will then proceed to provide an explanation of the elements for each situation that participants must evaluate and identify the actions necessary to restore the system to a stable condition. Upon completion of the group exercises, explanation of actual system events and lessons learned will be identified.

#### ***Group Exercise***

The class will break into small groups and be presented with system information under various system conditions that have been developed from real life situations. Each group will be responsible to identify a mitigation plan to correct the operational situation. Upon completion of the mitigation plans, the groups will discuss the steps that they elected to utilize in approaching the particular problem. The class will critique the actions plans of each group and will then be presented with the actual system event resolutions and the lessons learned from the incidents.

### **Classroom Schedule**

Day 1 - 8:00 AM to 5:00 PM

Day 2 - 8:00 AM to 5:00 PM

### **Attendee Requirements**

Attendees must sign-in for the training activity in accordance with the attendance verification process stated:

- Attendees are required to sign-in on the course sign-in sheet
- Attendees are required to provide their NERC SO Certification # on the sign-in sheet, if applicable
- Attendees are required to provide a photo ID as proof of identity
- Attendees must participate in all course activities
- Attendees must successfully complete the activity assessment and obtain a passing grade on the assessment. If the attendee is unsuccessful in the initial assessment, a second opportunity to successfully complete the assessment following remedial instruction will be given.
- Attendees must submit a course evaluation form

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