



## Background

This on-line course is intended to provide participants with an overview to natural disasters and their impacts to society and more specifically to the electric power grid. The course then identifies more specific impacts related to hurricanes and wildfires. The course will identify specific actions implemented pre-emptively by power system organizations in response to hurricane and wildfire threats. The participants will be required to utilize identified actions in a simulated environment. Exercises will utilize the Finist Simulator system. The situations presented in the exercises will deal with real-time system events.

## Target Audience

The class is intended for System Operators and System Personnel who wish to expand their knowledge of how natural disasters impact the power grid and how power system organizations respond on a pre-emptive basis to mitigate the threats of hurricanes and wildfires.

## NERC Continuing Education Hours

4.0 CEHs – Total  
4.0 CEHs – Operating Topics  
0.0 CEHs – Standards  
4.0 CEHs – Simulation

## NERC Emergency Training Requirement

4.0 hours of Emergency Operations

## Module Objectives

- Identify natural disasters and their impact on the power system
- Explore the steps that electric utilities take in preparing for natural disasters
- Identify actions that can be implemented on a preemptive basis
- Utilize the FINIST Simulator to demonstrate the implementation of actions in preparing for and responding to natural disasters



## Class Content

### ***Lecture***

The lecture segment includes extensive review of natural disasters, their impact on society, and specifically their impact on the electric power industry. The lecture then expands on the impacts of hurricanes and wildfires on the power industry and the bulk electric system. There is then an identification of actions that can be implemented on a pre-emptive basis to reduce and mitigate the impacts. The program then explores the integration of these concepts in real-time operating conditions.

### ***Exercises***

Individuals will be presented with operational situations that places or could place the system in a state of emergency. Students are expected to utilize the concepts identified in the lecture portion as they approach each operational situation that they are presented with.

## Attendee Requirements

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

- Attendees are required to sign-in using their designated sign-in and password
- Attendees must complete all course activities
- Attendees must successfully complete the activity assessment
- Attendees must submit a course evaluation form