



WECC System Operator Training System Restoration

Emphasis on this class is on all aspects of System Restoration. **System Restoration** is a week-long class (Monday 1:00 pm – Friday 12:00 pm) that offers each student a total of **32 NERC Continuing Education (CE) Hours**, including six (6) NERC CE hours of NERC Standards and 14 NERC CE hours of simulation. Each student will also receive 32 Emergency Operation (EOP) hours.

Primary Topics include:

- Introduction to System Restoration
 - Voltage Control & System Restoration
 - Frequency Control & System Restoration
 - Equipment Issues related to System Restoration
 - Protective Relay Issues related to System Restoration
 - Synchronizing & System Restoration
 - Power System Restoration Strategies
 - Lessons Learned from Actual System Restorations
 - NERC Emergency Operations Standards
- Reporting Criteria NERC/WECC/DOE

The following simulation modules, using the PALCO* system, are included in the class. Additional Modules may be added as they are developed to enhance understanding of the covered topics.

- Introduction to the PALCO System (how to use the simulator)
- Structured Restoration
- System Separation
- WECC Islanding
- Synchronizing Islands
- Group system restoration scenario with the class divided into Balancing Authorities, Generator Operators and Reliability Coordinators

*PALCO is a fictional 29-station power system.