



Stakeholder Training

2023

# Stakeholder Training - 2023 Reliability Course Catalog RC West



Stakeholder Training Department

Southwest Power Pool

1/1/2023

## SPP Learning Center Registration Information

Note: You must have an account in the SPP Learning Center in order to register. Links to create an account can be found on the sign-in page. This document is owned and maintained by the SPP Stakeholder Training department. It is a living document and will be updated as new courses and materials become available. Please email questions or comments to [Stakeholdertraining@spp.org](mailto:Stakeholdertraining@spp.org).

This document contains a the schedule of SPP Stakeholder Training’s West RC training offerings for 2023.

SPP Learning Center (LMS) Registration Information Learners will use the SPP Learning Center (LMS) to search and register for all training. First-time visitors to the LMS must create an account to gain access.

**SPP Southwest Power Pool | learning center**

**RETURNING USERS**

USERNAME or EMAIL

PASSWORD

Login

**NEW USERS**

Registration is required for new users of the SPP Learning Center

Register

[Forgot Password?](#) [FAQ](#) [Contact](#) [SPP Website](#)

## Power System Restoration Drill

SPP's Power System Restoration Drills are designed to provide participating entities an opportunity to practice the implementation of their system restoration plans including the assessment, coordination and communication necessary for power system restoration. Drills will be conducted virtually, enabling entities to participate from their own facility. SPP's Dispatcher Training Simulator (DTS) will be available through remote access. The drills will emphasize the application of NERC Standards, SPP Criteria and industry principles and guidelines related to system restoration. Facilitators, or their proxy, must be registered and present to assess each participant's performance in the simulation activity.

This is an intermediate level training session that will require participants have an existing knowledge of NERC Standards, SPP Criteria and industry principles and guidelines related to power system restoration. **SPP Stakeholder Training strongly recommends learners planning to participate in a system restoration drill first complete SPP's Restoration Principles Self-Study virtual training or other comparable restoration-focused training.**

Members of Southwest Power Pool, Inc. may participate in stakeholder training events at no additional cost. Non-members wishing to participate in SPP training events will be charged according to SPP's Stakeholder Training pricing structure.

### Course Fee for Non-members:

Restoration Drill - (8 hours)– \$360/entity (\$45/Continuing Education Hour)

All payments are made through the SPP Learning Center. SPP does not invoice, but accepts all major credit cards for payment.

### Other Details

**NERC ILA Number: SPP\_025\_PSRD\_WI\_2023** (*Pending approval*). NERC ILA is recognized by the North American Electric Reliability Corporation as an approved learning activity for which NERC CE hours can be awarded, and that Southwest Power Pool adheres to NERC Continuing Education Program Criteria.

### Estimated NERC CE Hour Breakdown:

**Western Interconnection** - 8 Op Topics hrs. 8 Standards hrs. 7 Sim hrs.  
*No Partial Credit available*

**Event Contact:** [Kelly Blackmer](#)– 501-482-2463

[Return to schedule](#)

<b>West Drills 2023 Dates:</b>	February 7	February 23	March 7
	February 14	February 28	March 14

## West RC Cycle Training

SPP's West RC Cycle Training is an eight-hour course dedicated to operations in SPP's West RC footprint. The course is divided into two sessions. One focusing on system restoration principles, policies, processes, and procedures in the Western Interconnection. The other focusing on SPP's Western Energy Imbalance Services (WEIS) Market and its relationship BES reliability.

Partial credit will be awarded per-session.

### Course Fee for Non-members:

**West RC Cycle Training** - (8 hours) – \$360/per entity (\$45/Continuing Education Hour)

All payments are made through the SPP Learning Center. SPP does not invoice, but accepts all major credit cards for payment.

***Course Fee applies to entities that are not part of the RTO West Services.***

### Other Details

**NERC ILA ID: SPP\_025\_WRCT\_VILT\_2023** (Pending approval) is recognized by the North American Electric Reliability Corporation as an approved learning activity for which NERC CE hours can be awarded, and Southwest Power Pool adheres to NERC Continuing Education Program Criteria.

### Estimated NERC CE Hours Breakdown:

Totals: 8 Operating Topics hrs.

**Event Contact:** [John Gunter](#) – 501-688-2526

[Return to schedule](#)

### 2023 Delivery Dates: (0800 – 1700 CPT)

February 6

February 21

March 6

February 13

February 27

March 13

## Additional Training Offerings

### REOPs Classroom Simulation Training VILT

SPP's Regional Emergency Operations (REOPs) is a 16-hour course, divided into 4 sessions, that addresses NERC standards COM-002-4, EOP-005-3, EOP-006-3, EOP-011-1, and IRO-006. The four sessions include the following:

- Session 1: Communication
  - Communications Protocol
- Session 2: Restoration
  - Review RC Area Restoration Plan
  - Interconnection Process and Checklist
  - R-COMM Restoration Tab and simulated restoration announcement test
  - Transfer of TOP control to BA during restoration
- Session 3: Energy Emergency Alerts
  - EEA3 Load Shed Procedure
  - Simulated EEA3 Load Shed Drill
- Session 4: Congestion
  - Severe Loading Methodology
  - IROL response and requirements

This is intermediate level training.

#### **Course Fee for Non-members:**

**REOPs** - (16 hours) – \$720/per entity (\$45/Continuing Education Hour)

All payments are made through the SPP Learning Center. SPP does not invoice, but accepts all major credit cards for payment.

#### **Other Details**

**NERC ILA ID: SPP\_025\_REOPs\_VILT\_2023** (Pending approval) is recognized by the North American Electric Reliability Corporation as an approved learning activity for which NERC CE hours can be awarded, and Southwest Power Pool adheres to NERC Continuing Education Program Criteria.

#### **Estimated NERC CE Hours Breakdown:**

Totals: 16 Operating Topics hrs.

No Partial Credit will be awarded for this session.

<b>2023 Dates:</b>	August 8-9	October 3-4	November 28-29
	August 15-16	October 10-11	December 5-6

## eLearning - Outage Coordination (CROW)

SPP uses the CROW Outage Scheduler to communicate and track planned and emergency outages of transmission elements and generating units. The Outage-Coordination – CROW Self-Study will describe the importance and timeliness of outage coordination and reporting. An emphasis will be placed on SPP RC Outage Coordination Methodology and the CROW outage submission tool.

This is intermediate level training.

Members of Southwest Power Pool, Inc. may request self-study at no additional cost. Non-members wishing to take SPP training events will be charged according to SPP's Stakeholder Training pricing structure.

### **Course Fee for Non-members:**

**Outage Coordination (CROW)** (1.5 hours) - \$67.50/per person or \$45/Continuing Education Hour

All payments will be made through the SPP Learning Center. SPP does not invoice but accepts all major credit cards for payment.

### **Other Details**

**NERC ILA ID: SPP\_025\_CROW\_SS\_2014** (*Pending renewal approval*) is recognized by the North American Electric Reliability Corporation as an approved learning activity for which NERC CE hours can be awarded, and Southwest Power Pool adheres to NERC Continuing Education Program Criteria.

### **NERC CE Hours Breakdown:**

Totals: 1.5 Operating Topics hrs. 1.5 Standards hrs.

Search the SPP Learning Center for the term "CROW" or "Reliability Self-Study" for more information and for registrations options.

## **eLearning - System Restoration Principles (SRP)**

This self-study is designed to help participants develop an understanding of system restoration principles, as well as NERC Standards and SPP Criteria related to system restoration. Topics covered in this self-study include, but are not limited to, acceptable frequency and voltage limits, load restoration guidelines, and criteria for interconnection.

***We strongly recommend anyone planning to participate in a system restoration drill first complete this self-study.***

This is intermediate level training.

Members of Southwest Power Pool, Inc. may request self-study at no additional cost. Non-members wishing to take SPP training events will be charged according to SPP's Stakeholder Training pricing structure.

### **Course Fee for Non-members:**

**System Restoration Principles** - (1 hour) - \$45/per person or \$45/person per Continuing Education Hour

All payments will be made through the SPP Learning Center. SPP does not invoice but accepts all major credit cards for payment.

### **Other Details**

**NERC ILA ID: SPP\_025\_SRP\_SS\_2015** (*Pending renewal approval*) is recognized by the North American Electric Reliability Corporation as an approved learning activity for which NERC CE hours can be awarded, and Southwest Power Pool adheres to NERC Continuing Education Program Criteria.

### **NERC CE Hours Breakdown:**

Totals: 1 Operating Topics hr. 1 Standards hr.

Search the SPP Learning Center for the term "System Restoration" or "Self-Study" for more information and for registration options.

## eLearning - Voltage Control and System Stability (VCSS)

This self-study explores the basic fundamentals of voltage control, acceptable voltage limits under normal, contingency, and restoration conditions, and reactive devices used to manage voltage on the Bulk Electric System.

This is intermediate level training.

Members of Southwest Power Pool, Inc. may request self-study at no additional cost. Non-members wishing to take SPP training events will be charged according to SPP's Stakeholder Training pricing structure.

### **Course Fee for Non-members:**

**Voltage Control and System Stability** - (1 hour) - \$45/per person or \$45/person per Continuing Education Hour

All payments will be made through the SPP Learning Center. SPP does not invoice but accepts all major credit cards for payment.

### **Other Details**

**NERC ILA ID: SPP\_025\_VCSS\_SS\_2017** (*Pending renewal approval*) is recognized by the North American Electric Reliability Corporation as an approved learning activity for which NERC CE hours can be awarded, and Southwest Power Pool adheres to NERC Continuing Education Program Criteria.

### **NERC CE Hour Breakdown:**

Totals: 1 Operating Topics hr.; 1 Standards hr.

Search the SPP Learning Center for the term "VCSS" or "Reliability Self-Study" for more information and for registration options.



## eLearning - Operator Awareness (OA)

This self-study introduces the components of Operator Situational Awareness and identifies the importance of the use of operator situational awareness in recognizing reliability issues on the system. The self-study will also identify Human Performance Tools that can promote Operator Awareness and can be used to help respond to contingencies.

Members of Southwest Power Pool, Inc. may request self-study at no additional cost. Non-members wishing to take SPP training events will be charged according to SPP's Stakeholder Training pricing structure.

### **Course Fee for Non-members:**

**Operator Awareness** - (1 hour) - \$45/per person or \$45/person per Continuing Education Hour

All payments will be made through the SPP Learning Center. SPP does not invoice but accepts all major credit cards for payment.

### **Other Details**

**NERC ILA ID: SPP\_025\_OA\_SS\_2017** (*Pending renewal approval*) is recognized by the North American Electric Reliability Corporation as an approved learning activity for which NERC CE hours can be awarded, and Southwest Power Pool adheres to NERC Continuing Education Program Criteria.

### **NERC CE Hour Breakdown:**

Totals: 1 Operating Topics hr.

Search the SPP Learning Center for the term "OA" or "Reliability Self-Study" for more information and for registration options.

## eLearning - Power System Protection Curriculum

This self-study course will review the fundamental purpose of system protection and the basic components that make up a protection system. Participants will review a variety of relay types, characteristics, and applications such as differential relays, distance relays, instantaneous and time-delay relays, and directionality.

Members of Southwest Power Pool, Inc. may request self-study at no additional cost. Non-members wishing to take SPP training events will be charged according to SPP's Stakeholder Training pricing structure.

### **Course Fee for Non-members:**

**Power System Protection Curriculum** - (1.5 hour) - \$67.50/per person or \$45/Continuing Education Hour

All payments will be made through the SPP Learning Center. SPP does not invoice but accepts all major credit cards for payment.

### **Other Details**

**NERC ILA ID: SPP\_025\_PSP Curriculum\_2020** (*Pending approval*) is recognized by the North American Electric Reliability Corporation as an approved learning activity for which NERC CE hours can be awarded, and Southwest Power Pool adheres to NERC Continuing Education Program Criteria.

### **NERC CE Hour Breakdown:**

Totals: 1.5 Operating Topics hrs. 1.5 Standard hrs.

Search the SPP Learning Center for the term "Protection" or "Reliability Self-Study" for more information and for registration options.

## **eLearning - Renewable Energy Curriculum**

Renewable energy is on the mind of everyone from the leaders of the United States to your next door neighbor. The Renewable Energy Curriculum provides you with foundational knowledge about Solar and Wind energy as well as the related Energy Storage Resource technologies that are commonly used within the United States. Take all three 50-minute modules and join the conversation.

### **Course Fee for Non-members:**

**Renewable Energy Curriculum** - (3 hours) - \$135/per person or \$45/person per Continuing Education Hour

All payments will be made through the SPP Learning Center. SPP does not invoice but accepts all major credit cards for payment.

### **Other Details**

**NERC ILA ID: SPP\_025\_RC\_SS\_2021** (pending ILA approval) is recognized by the North American Electric Reliability Corporation as an approved learning activity for which NERC CE hours can be awarded, and Southwest Power Pool adheres to NERC Continuing Education Program Criteria.

### **Estimated NERC CE Hours Breakdown:**

Totals: 3 Operating Topics hrs. 0 Standards hrs. 0 Simulation hrs.

Search the SPP Learning Center for the term “Wind”, “Solar”, or “Energy Storage” for more information and for registration options.