This document includes a list and descriptions of the 2020 Reliability Course offerings.

Customer Training
Department
Reliability
Training Courses

CUSTOMER TRAINING -
RELIABILITY TRAINING COURSE CATALOG
2020
Introduction

The SPP Customer Training - Reliability 2020 Course Training Catalog provides course descriptions and sessions scheduled for the 2020 calendar year. Registrations for these classes will open at 1400 (CST) on Tuesday, November 5, 2019, in the SPP Learning Management System (LMS). Once registration opens, sessions will be displayed on, and can be requested from, the SPP LMS Session Calendar.

Note: You must have an account in the SPP LMS in order to log on. Links to create an account can be found on the sign-in page of the SPP LMS.

This document is owned and maintained by the SPP Customer Training Department. It is a living document and will be updated as new courses and materials become available. Please e-mail questions or comments to training@spp.org.

This document contains a complete schedule of the SPP Customer Training Department’s Reliability Training offerings for 2020. You can read a description of each course by clicking the links under Schedule of Classes. Registration information through our Learning Management System (LMS) is also included.

Types of Training

- **Self-Studies** – Self-studies are computer-based modules available through the SPP LMS. These training courses are self-paced at the discretion of the learner. *Most of our self-study courses offer Continuing Education Hours (CEHs).*

- **Learning Burst** – Learning Bursts are short, targeted segments of online training that deliver basic and valuable knowledge in short “bursts” or sessions of 10 minutes or less. Learning Bursts do not offer CEHs.

SPP currently offers two types of Instructor-Led training.

- **Instructor-Led Training (ILT)**
  - Training delivered in a real-time environment

- **Virtual Instructor-Led Training (VILT)**
  - Interactive training delivered via the internet and sometimes referred to as a Net Conference or Webinar.
SPP Learning Center (LMS) Registration Information

Learners will use the SPP Learning Center (LMS) to search and register for:

- Self-Studies
- Learning Bursts
- Instructor-Led Training (ILT)
- Virtual Instructor-Led Training (VILT)

First-time visitors to the LMS must create an account to gain access.

Creating an Account in the SPP LMS

- Go to spp.csod.com and click the appropriate link:
  - Member Registration - Employees of SPP Member companies
    - (For a list of SPP Member companies, go to the Member page of SPP.org.)
  - Non-Member Registration - Employees of non-member companies (this includes Market Participants, Registered Entities who are not SPP Members, etc.)
    - Once you have created an account, log into the LMS.

Contact LMS@spp.org with any questions.
Effective as of 10/8/2019

Schedule of Classes
(Click the title to view the course description, NERC Continuing Education hours, course fees, contact information and dates offered.)

Online Courses

Self-Studies with CEHs:
- Outage Coordination – CROW
- Control Performance Standards (CPS)
- System Restoration Principles
- Transmission Loading Relief (TLR)
- Voltage Control and System Stability
- Operator Awareness
- Power System Protection: Fundamentals
- Reserve Sharing System (RSS)
- SPP BA EOP Conservative Operations and Capacity and Energy Emergencies

Self-Studies (without CEHs):
- Adventures in Training - Subject Matter
- Expert (SME) Training
- SME – Learning the R.O.P.E.S

Learning Bursts (no CEHs):
- What is ACE?
- How to Calculate ACE

Instructor-led (ILT) and Virtual Instructor-led (VILT) Courses

January, 2020

14 Unit Commitment Fundamentals (VILT)
14 Emerging Technology (VILT)
15 Operating Personnel Communications Protocols (VILT)
15 Conservative Operations (VILT)
16 Power System Protection: Differential & Generator (VILT)
21 Conservative Operations (VILT)
21 Operating Personnel Communications Protocols (VILT)
22 Emerging Technology (VILT)
22 Unit Commitment Fundamentals (VILT)
23 Power System Protection: Differential & Generator (VILT)
27 DTS_ Hands-On
28 - 29 Power System Restoration Drill
30 Power System Restoration Drill (West Only)
February, 2020
4 - 5 REOPS (VILT)
10 DTS_ Hands-On
11 – 12 Power System Restoration Drill
13 Power System Restoration Drill (West Only)

March, 2020
30 – April 2 - System Operations Conference – Little Rock, AR

April, 2020
14 – 15 REOPS (VILT)
21 - 22 REOPS (VILT)
27 – 30 System Operations Conference – Kansas City, MO

May, 2020
5 Unit Commitment Fundamentals (VILT)
5 Emerging Technology (VILT)
6 Operating Personnel Communications Protocols (VILT)
6 Conservative Operations (VILT)
7 Power System Protection: Differential & Generator (VILT)
11 DTS_ Hands-On
12 - 13 Power System Restoration Drill
14 Power System Restoration Drill (West Only)
18 - 21 System Operations Conference – Columbus, OH
28 Train-the-Trainer (VILT)

June, 2020
9 – 10 Market Reliability

July, 2020
No training is scheduled.

August, 2020
11 - 13 Train-the-Trainer Workshop – Little Rock
24 - 27 System Operations Conference – Omaha, NE
Effective as of 10/8/2019

September, 2020
1 Conservative Operations (VILT)
1 Operating Personnel Communications Protocols (VILT)
2 Emerging Technology (VILT)
2 Unit Commitment Fundamentals (VILT)
3 Power System Protection: Differential & Generator (VILT)
8 - 9 REOPS (VILT)
15 Unit Commitment Fundamentals (VILT)
15 Emerging Technology (VILT)
16 Operating Personnel Communications Protocols (VILT)
16 Conservative Operations (VILT)
17 Power System Protection: Differential & Generator (VILT)
22 - 23 REOPS (VILT)
28 – October 1 System Operations Conference – Denver, CO

October, 2020
13 - 14 Power System Restoration Drill
15 Power System Restoration Drill (West Only)
19 – 22 System Operations Conference – Norman, OK
27 - 28 REOPS (VILT).
29 Train-the-Trainer (VILT)

November, 2020
2 DTS_ Hands-On
3 -4 Power System Restoration Drill
5 Power System Restoration Drill (West Only)
9 - 10 Power System Restoration Drill
12 Power System Restoration Drill (West Only)
17 Power System Protection: Differential & Generator (VILT)
18 Emerging Technology (VILT)
18 Unit Commitment Fundamentals (VILT)
19 Conservative Operations (VILT)
19 Operating Personnel Communications Protocols (VILT)
30 DTS_ Hands-On

December, 2020
1 - 2 Power System Restoration Drill
Course Descriptions

SPP System Operations Conference

SPP will host six System Operations Conferences (SOCs) designed to provide participants valuable training on current and relevant topics, NERC continuing education hours, and opportunities to collaborate and network with others who serve in system operations.

Members of Southwest Power Pool, Inc. may participate in SOCs at no additional cost. Non-members wishing to participate will be charged according to SPP’s Customer Training pricing structure. This is an Intermediate level training event designed primarily for persons who have some previous experience in system operations.

Course Fee for Non-members:
System Operations Conference - SOC (24 hours) - $1,420/per person ($55/Continuing Education Hour plus $25 per/day for meals)

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

Other Details
NERC ILA ID: NERC ILA SPP_025_SOC_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.

Estimated NERC CE Hours Breakdown:
Totals: 24 Operating Topics hrs. Partial Credit may be awarded per day or session. Complete CE hour break down will be available in the LMS after ILA approval.

Other Details: Agenda and other details TBA.

Event Contact: Kim Burnside – 501-482-2056

2020 Dates and Locations:
March 30 – April 2 Little Rock, AR
April 27 - 30 Kansas City, MO
May 18 - 21 Columbus, OH
August 24 - 27 Omaha, NE
September 28 – October 1 Denver, CO
October 19 - 22 Norman, OK
REOPs Classroom Simulation Training VILT

SPP’s REOPs (Regional Emergency Operations) simulation course consists of two eight-hour training sessions that will focus on such topic areas as Congestion Management, Voltage Control principles, SPP’s Synchronization Process, and Contingency Analysis and mitigations. Each session will be offered virtually and will require the presence of a proctor who possesses VPN access to SPP’s Dispatcher Training Simulator (DTS). SPP will provide initial training on its DTS upon request.

This is Intermediate level training.

Course Fee for Non-members:
(16 hours) – $720/per entity ($45/Continuing Education Hour)
All payments are made through the SPP Learning Center (LMS). SPP does not invoice, but accepts all major credit cards for payment.

Other Details

NERC ILA ID: NERC ILA SPP_025_REOPs_VILT_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.

Estimated NERC CE Hours Breakdown:
Totals: 16 Operating Topics hrs. Partial Credit may be awarded in eight-hour session increments.

Event Contact: John Gunter – 501-688-2526  

2020 Dates:  
February 4 - 5  
April 4 - 5  
April 14 - 15  
April 21 - 22  
September 8 - 9  
September 22 - 23  
October 27 - 28

Return to schedule
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 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, and SPP will offer preliminary training on the use of the simulator upon request. 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 system restoration. We strongly recommend 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 customer training events at no additional cost. Non-members wishing to participate in SPP training events will be charged according to SPP’s Customer Training pricing structure.

Course Fee for Non-members:

Restoration Drill (16 hours) *(East only)* – $720/entity ($45/Continuing Education Hour)
Restoration Drill (8 hours) *(West only)* – $360/entity ($45/Continuing Education Hour)

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

Other Details

NERC ILA Number: NERC ILA SPP_025_PSRD_2020 *(Pending approval)* and SPP_025_PSRD_WI_2020 *(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: Totals: 16 Operating Topic hrs. 16 Standards hrs. 15 Simulation hrs.

Partial Credit available – Partial credit will be awarded in whole-day increments only.

Day 1 – 8 Op Topics hrs. 8 Standards hrs. 7 Sim hrs.
Day 2 – 8 Op Topics hrs. 8 Standards hrs. 8 Sim hrs.

Power System Restoration Drill _ West Interchange - 8 Op Topics hrs. 8 Standards hrs. 7 Sim hrs.

Event Contact: Greg Reed – 501-482-2463

2020 Dates:

- January 28 – 29
- January 30 (West Only)
- February 11 - 12
- February 13 (West Only)
- May 12 - 13
- May 14 (West Only)
- October 13 - 14
- October 15 (West Only)
- November 3 - 4
- November 5 (West Only)
- November 9 - 10
- November 12 (West Only)
- December 1 - 2
**DTS Hands-On Class**

The DTS Hands-On course will be offered in advance of every DTS-based SPP simulation course. This course is designed to provide participants instruction on how to navigate through the DTS and take a variety of actions necessary for switching, generator control, voltage control, and system loading. Each session will be offered remotely and will require the presence of a proctor who possess VPN access to SPP’s DTS.

This is foundational level training.

**Course Fee for Non-members:**
There is no charge for non-members to attend this class.

**Other Details**
**NERC ILA ID:** No Continuing Education Hours associated with this course.

**Event Contact:** Greg Reed – 501-482-2463

Sessions are from 1400 – 1600 CPT

**2020 Dates:**

- January 27
- February 10
- May 11
- October 9
- November 2
- November 6
- November 30
**Marketplace Reliability**

SPP’s Marketplace Reliability course is a 1.5 day in-person instructor-led course focused on identifying and evaluating BES reliability-related tasks that the SPP Integrated Marketplace helps to perform. The reliability tasks and associated Marketplace processes covered in the course include unit commitment, balancing generation and load, contingency reserve deployment, regulation scheduling, and congestion management.

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

**Course Fee for Non-members:**

*(12 hours)* - $697/entity ($55/Continuing Education Hour plus $37/person for food)*

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

**Other Details**

**NERC ILA ID:** NERC ILA SPP_025_MR_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.

Estimated NERC CE Hours Breakdown:
Totals: To Be Determined

**Event Contact:** Gay Anthony – 501-688-1722

**2020 Dates:** August 4 – 5 (Little Rock, AR)
**Virtual Instructor-Led Training – Conservative Operations**

This two-hour VILT session will review SPP’s Conservative Operations triggers and responses as outlined in the SPP Balancing Authority Emergency Operating Plan. Participants will first explore a variety of system conditions that may trigger SPP’s Conservative Operations. Then, participants will review the actions SPP will likely take in response to each trigger.

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

This is Intermediate level training.

**Course Fee for Non-members:**

**VILT (2 hours)** - $90/per person or $45/Continuing Education Hour

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

**Other Details**

**NERC ILA ID:** NERC ILA SPP_025_NC_CO_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.

Estimated NERC CE Hours Breakdown:

Totals: 2 Operating Topics hrs. 1 Standards hrs.

VILT training material and instructions will be provided to registered participants once registration has closed. Sessions are 0900 – 1100 and/or 1200 – 1400 (CPT).

**Event Contact:** Greg Reed – 501-482-2463

2020 Dates:

- January 15 (PM)  
- January 21 (AM)  
- May 6 (PM)  
- September 1 (AM)  
- September 16 (PM)  
- November 19 (PM)
Virtual Instructor-Led Training – Power System Protection: Differential and Generator Protections

This two-hour VILT session builds on SPP’s Power System Protection Fundamentals self-study course focuses on Differential Protection and Generator Protection. Applicable NERC Standards and SPP Criteria related to the use and coordination of system protection will also be reviewed.

This is Intermediate level training.

Course Fee for Non-members:
VILT (2 hours) - $90/per person or $45/Continuing Education Hour
All payments are made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA SPP_025_NC_PSP_DGP_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.

Estimated NERC CE Hours Breakdown:
Totals: Pending approval 2 Operating Topics hrs. 2 Standards hrs.

VILT training material and instructions will be provided to registered participants once registration has closed. Sessions are 0900 – 1100 and/or 1200 - 1400 (CPT).

Event Contact: Greg Reed – 501-482-2463

2020 Dates:  
January 16 (AM)  September 3 (AM)  
January 23 (AM)  September 17 (AM)  
May 7 (PM)  November 17 (AM)
Virtual Instructor-Led Training – Unit Commitment Fundamentals

This two-hour VILT session will review and simulate Day-Ahead and Intra-Day Reliability Unit Commitment (RUC) processes and how RUC may be used to support such real-time operating concerns as Power Flow, Capacity and Energy Emergencies, and Voltage Support.

This is Intermediate level training.

Course Fee for Non-members:  
VILT (2 hours) - $90/per person or $45/Continuing Education Hour
All payments are made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details  
NERC ILA ID: NERC ILA SPP_025_NC_UCF_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.

Estimated NERC CE Hours Breakdown:  
Totals: Pending approval 2 Operating Topics hrs. 2 Standards hrs. 1 Simulation hr.

VILT training material and instructions will be provided to registered participants once registration has closed. Sessions are 0900 – 1100 and/or 1200 - 1400(CPT).

Event Contact: Gay Anthony – 501-688-1722

2020 Dates:  
January 14 (AM)          September 2 (PM)  
January 22 (PM)          September 15 (AM)  
May 5 (AM)               November 18 (PM)
Virtual Instructor-Led Training – Operating Personnel Communications Protocols

This two-hour VILT session covers NERC Standard COM-002-4 – Operating Personnel Communications Protocols and protocols developed for the SPP footprint in response to the NERC standard.

This is Intermediate level training.

Course Fee for Non-members:
VILT (2 hours) - $90/per person or $45/Continuing Education Hour
All payments are made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA SPP_025_NC_OPCP_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.

Estimated NERC CE Hours Breakdown:
Totals: Pending approval 2 Operating Topics hrs. 1 Standards hrs.

VILT training material and instructions will be provided to registered participants once registration has closed. Sessions are 0900 – 1100 and/or 1200 - 1400(CPT).

Event Contact: Jennifer Farley – 501-688-8398

2020 Dates: January 15 (AM) September 1 (PM)
January 21 (PM) September 16 (AM)
May 6 (AM) November 19 (PM)
Virtual Instructor-Led Training – Emerging Technologies (and Their Impact on Real-Time Operations)

This two-hour VILT session will discuss some of the newer existing and emerging technologies in the power industry, and the opportunities and challenges they bring to real-time operations within SPP. Solar power and grid energy storage technology will be discussed, as well as other emerging technologies with impact to the BES. Any NERC Standards, SPP Criteria, and other SPP business rules related to the use of these technologies will also be reviewed.

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

This is Intermediate level training.

Course Fee for Non-members:
VILT (2 hours) - $90/per person or $45/Continuing Education Hour

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

Other Details
NERC ILA ID: NERC ILA SPP_025_NC_ET_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.

Estimated NERC CE Hours Breakdown:
Totals: 2 Operating Topics hrs. 0 Standards hrs.

VILT training material and instructions will be provided to registered participants once registration has closed. Sessions are 0900 – 1100 and/or 1200 – 1400 (CPT).

Event Contact: Greg Reed – 501-482-2463

2020 Dates:
January 14 (PM) September 2 (AM)
January 22 (AM) September 15 (PM)
May 5 (PM) November 18 (AM)
SPP BA EOP Conservative Operations and Capacity and Energy Emergencies

Being prepared to handle the Bulk Electric System (BES) during emergency operations is a CRITICAL skill for system operators and other key personnel. This self-study course will focus on Capacity and Energy Emergencies (CEE) as well as Conservative Operations.

This is Intermediate level training.

The participants will identify how the SPP Balancing Authority Emergency Operating Plan and NERC’s EOP standards identify and describe actions to be taken for mitigating these emergency situations.

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 Customer Training pricing structure.

Course Fee for Non-members:
Self-Study (1 CE hour) - $45/per person or $45/Continuing Education Hour
All payments will be made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA SPP_025_BAEOP_CO_CEE_SS_2019 (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 hrs. 1 Standards hrs.

Return to schedule
Outage Coordination (CROW) Self-Study

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 Operating Criteria Appendix OP-2: 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 Customer Training pricing structure.

Course Fee for Non-members:
Self-Study (1.5 hours) - $67.50/per person or $45/Continuing Education Hour
All payments will be made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA 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 LMS with the term “CROW” or “Reliability Self-Study” for more information and for registrations options.

Return to schedule
Control Performance Standards (CPS) Self-Study

This Self-Study is designed to ensure participants develop an understanding of the NERC Real Power Balancing Control Performance Standards, Control Performance Standard 1 (CPS1) and Balancing Authority ACE Limit (BAAL); and the Disturbance Control Performance Standard (DCS). Applicable concepts, such as ACE and frequency will also be discussed, as well as expectations for compliance with each of these standards.

Those taking this Self-Study should have a clear understanding of the ACE calculation. For a refresher, we suggest you take the Learning Bursts; What is ACE? and How to Calculate ACE.

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 Customer Training pricing structure.

Course Fee for Non-members:
Self-Study (1 hour) - $45/per person or $45/person per Continuing Education Hour
All payments will be made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA SPP_025_CPS_SS_2016 (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 LMS with the term “CPS” or “Reliability Self-Study” for more information and for registration options.
System Restoration Principles (SRP) Self-Study

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 Customer Training pricing structure.

Course Fee for Non-members:
Self-Study (1 hour) - $45/per person or $45/person per Continuing Education Hour
All payments will be made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA SPP_025_SRPRSS_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 LMS with the term “System Restoration” or “Self-Study” for more information and for registration options.

Return to schedule
Transmission Loading Relief (TLR) Self-Study

This Self-Study is designed to ensure participants develop an understanding of flowgates, distribution factors and the TLR process. The various levels of TLR will be described along with considerations when selecting a particular TLR level, curtailment amounts, and Network and Native Load (NNL) relief. Applicable NERC and SPP requirements will also be reviewed.

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 Customer Training pricing structure.

Course Fee for Non-members:
Self-Study (1 hour) - $45/per person or $45/person per Continuing Education Hour
All payments will be made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA SPP_025_SS_TLR_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 Hour Breakdown:
Totals: 1 Operating Topics hr. 1 Standards hr.
Search the SPP LMS with the term “TLR” or “Reliability Self-Study” for more information and for registration options.

Return to schedule
Voltage Control and System Stability (VCSS) Self-Study

This Self-Study is designed to present an overview on the components of power and how reactive power influences power flow in a transmission system. This CBT will include information on managing system stability during changing conditions, and the equipment on the system that can assist with maintaining adequate voltage during normal and emergency conditions.

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 Customer Training pricing structure.

Course Fee for Non-members:
Self-Study (1 hour) - $45/per person or $45/person per Continuing Education Hour
All payments will be made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA 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 LMS with the term “VCSS” or “Reliability Self-Study” for more information and for registration options.

Return to schedule
Operator Awareness (OA) Self-Study

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 Customer Training pricing structure.

Course Fee for Non-members:
Self-Study (1 hour) - $45/per person or $45/person per Continuing Education Hour
All payments will be made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA 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 LMS with the term “OA” or “Reliability Self-Study” for more information and for registration options.
Power System Protection: Fundamentals Self-Study

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 Customer Training pricing structure.

Course Fee for Non-members:
*Self-Study (1 hour)* - $45/per person or $45/person per Continuing Education Hour
All payments will be made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA SPP_025_PSPF_SS_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: To Be Determined  *(Pending course pilot)*

Search the SPP LMS with the term “Protection” or “Reliability Self-Study” for more information and for registration options.

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Reserve Sharing System (RSS) Self-Study

SPP uses the OATI Reserve Sharing System (RSS) tool to notify SPP’s Reserve Sharing Group (RSG) when one of its members has suffered a sudden and unexpected loss of capacity. Reserves carried by RSG members will be proportionately distributed by the RSS for recovery of this loss.

This self-study e-Learning will discuss the allocation and distribution of reserves within the SPP RSG as well as other information available in the SPP RSS. By participation in self-check scenarios throughout the session, the participants will learn how to submit pertinent data and the outcome of different reserve sharing situations.

This is Intermediate level training.

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

Course Fee for Non-members:
Self-Study (1.5 hours) - $67.50/per person or $45/Continuing Education Hour
All payments will be made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA ID: NERC ILA SPP_025_RSS_SS_2016 (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 LMS with the term “RSS” or “Reliability Self-Study” for more information and registration.
Effective as of 10/8/2019

Non-Continuing Education Hours
Training Courses
SPP Train-the-Trainer

Southwest Power Pool’s Train-the-Trainer provides trainers opportunities to enhance their professional skills as they design and develop quality training programs using a Systematic Approach to Training (SAT). Using a SAT is not only a NERC requirement; it is an essential component in developing great training.

The 2020 Train-the-Trainer curriculum will consist of two Virtual Instructor-led Training (VILT) sessions and one 3-day Instructor-led Training workshop in Little Rock. Please see the LMS for a complete description of each training event.

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

Who should attend these sessions?
• Individuals responsible for conducting training for their respective entities.
• System Operators and other operations personnel who play a role in training.

Course Fee for Non-members:
Train-the-Trainer VILT Conferences – (2 hours each) $35/participant
Train-the-Trainer ILT Workshop – (24 hours) $500/participant
All payments are made through the SPP Learning Center (LMS). SPP does not invoice but accepts all major credit cards for payment.

Other Details
NERC ILA IDs: SPP’s Customer Training Department follows NERC’s guidelines for awarding Continuing Education hours. The Train-the-Trainer courses do not address the approved Continuing Education topics found in Appendix A of NERC’s Continuing Education Manual. Therefore, no continuing education hours will be awarded for the Train-the-Trainer classes.

Event Contact: Jennifer Farley – 501-688-8398
VILTs are 0900 – 1100 (CPT).

2020 Dates:
May 28 - (VILT)
August 11 - 13 – Dear ADDIE, Please Help! (3-day Workshop in Little Rock)
October 29 – (VILT)
Subject Matter Expert Training Self-Studies
No Continuing Education Hours are available for these courses.

According to NERC guidelines, a Subject Matter Expert (SME) must receive training before conducting training sessions. SPP’s Customer Training Department has developed two self-studies in order to provide SMEs with the necessary training.

If an organization is a member of Southwest Power Pool, Inc., they may request these Subject Matter Expert self-studies at no additional cost. Non-members will not have access to these self-studies.

*We highly recommend you take both self-studies.*

Adventures in Training - Subject Matter Expert (SME) Training Self-Study

The Subject Matter Expert (SME) Training Self-Study is intended for individuals who have been identified as SMEs in their fields and subsequently asked to provide training. This thirty-minute self-study guides SMEs through relevant information pertaining to their responsibilities before, during, and after their session. Along the way, they will identify effective planning and presentation techniques and strategies. *No CEH credit is awarded.*

Learning the R.O.P.E.S.: Subject Matter Expert Training Self-Study

Learning the R.O.P.E.S - Subject Matter Expert (SME) Training Self-Study is intended for individuals who have been identified as SMEs in their fields and subsequently asked to provide training. This 30-minute scenario-based self-study navigates SMEs through the R.O.P.E.S. Method for delivering training. By learning to implement the five steps in this easy-to-use model, SMEs can ensure an effective delivery of their presentations. *No CEH credit is awarded.*

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SPP Learning Bursts

SPP Learning Bursts are short, targeted segments of training that deliver basic and valuable knowledge in short “bursts” or sessions. This training is intended for beginners. No CEH credit is awarded.

SPP will continue to add courses to the Learning Burst series. Check back often by searching the SPP LMS with the term, “Reliability Learning Burst”.

Members of Southwest Power Pool, Inc., may request Learning Burst courses at no additional cost. Non-members may request access to the Learning Burst Series.

What is ACE? Learning Burst

Those taking this reliability Learning Burst virtual training should have a basic understanding of frequency and interchange. This Learning Burst is designed to provide the learner with a brief definition of Area Control Error (ACE) and why it is important.

Search the SPP LMS with the term “ACE” for more information and for registration options.

How to Calculate ACE? Learning Burst

This Learning Burst virtual training is designed to provide the learner with four different methods for calculating ACE. The learner can review any of the four methods for understanding and then apply the knowledge learned to several example calculations. Each example calculation will also provide a guided review using each of the four methods. It is suggested that those taking this Learning Burst have already completed the What is ACE? Learning Burst.

Search the SPP LMS with the terms “ACE” or “How to” for more information and for registration options.