



# **2024 SPP INTEGRATED MARKETPLACE TRAINING CATALOG**

By SPP Stakeholder Training

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Version 5.3

# REVISION HISTORY

VERSION NUMBER	DATE CHANGE	AUTHOR	CHANGE DESCRIPTION
1.0	2/16/2018	Amy Casavechia	2018 Catalog published. Added Content IDs and quick searches using keywords.
1.1	2/26/2018	Amy Casavechia	Minor edits to course durations and totals hours.
1.2	5/4/2018	Amy Casavechia	Added Knovio modules on Pricing, RUC; VILT TCR session added.
2.0	12/10/2019	Becky Gifford and Michael Daly	Updated catalog for 2020
2.1	7/1/2020	Becky Gifford	Updated catalog with new courses and deactivations
3.0	12/7/2020	Becky Gifford	Updated catalog with new courses, updated course IDs
4.0	12/17/2021	Becky Gifford	Updated catalog with new courses, updated course IDs and times
4.1	2/1/2022	Becky Gifford	Combined Onboarding Checklist with the catalog; added descriptions to overview courses
4.2	3/3/2022	Becky Gifford	Added Ramp Capability Product and Resource Asset Registration Reference Guide
4.3	4/20/2022	Kim Burnside	Removed references of LMS and changed to SPP Learning Center
4.4	5/5/2022	Kim Burnside	Changed Customer Training to Stakeholder Training
4.5	7/8/2022	Becky Gifford	Added Continuing Education Hour section to the Introduction
4.6	12/2022	Becky Gifford	Updated for 2023 to be published 1/17/2023
4.7	7/24/2023	Kim Burnside	Added Uncertainty Reserve Product to catalog
5.0	12/18/2023	Becky Gifford	Updated for 2024 to be published in new year.
5.1	7/1/2024	Kim Burnside	Changed duration for Regulation Compensation from 50 min to 30 min and add two new courses to Market Operations – <b>Market Outages in the Integrated Marketplace</b> and <b>Dispatch Target Adjustment</b>

5.2	10/1/2024	Kim Burnside	Changed duration for RTBM Timelines and Activities from 24 minutes to 21 minutes. Added new course, <b>Uninstructed Resource Deviation</b> , module under the RTBM section.
5.3	10/21/2024	Becky Gifford	Added two new courses: <b>Local Reliability</b> and <b>Incremental and Self-Incremental Make-Whole Payment</b> to Charge Types section. Changed Revenue Neutrality Uplift Charge Type time from 3 to 12 minutes.

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# INTRODUCTION

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The Integrated Marketplace Training Catalog is a guide to Marketplace training courses and materials. This document categorizes Marketplace training by topics (or subject areas) to help you quickly locate desired training for Market Participants (MPs) that are new to Southwest Power Pool (SPP), need to onboard new staff at their organizations, or need a refresher about Marketplace topics.

**NOTE:** This document is owned by SPP's Stakeholder Training. For questions or comments, send an email to [SPPStakeholderTraining@spp.org](mailto:SPPStakeholderTraining@spp.org).

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To download the latest version of this document, use this [link](https://www.spp.org/stakeholder-center/stakeholder-training/) on spp.org (<https://www.spp.org/stakeholder-center/stakeholder-training/>) and go to Related Document Groups.

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## NERC CONTINUING EDUCATION HOURS






At this time, Stakeholder Training does not offer NERC Continuing Education Hours (CEHs) for the majority of its Marketplace courses. Only two Marketplace courses offers CEHs and are notated accordingly in this catalog.

For a list of all courses that do provide CEHs, see the **2024 Reliability Course Catalog** on spp.org (<https://www.spp.org/stakeholder-center/stakeholder-training/>) under Related Documents.

# TRAINING CATALOG OVERVIEW

## TYPES OF TRAINING

The table below details the types of training content available in the SPP Learning Center. The icons shown are the same as those that display in the SPP Learning Center when searching and registering for training.

Icon	Brief Description
 <p><b>Online Classes</b></p>	<p>Online classes are single eLearning modules, also known as computer-based training (CBT) modules. These are self-paced and can be paused/re-played at the discretion of the learner.</p> <p>Some online classes will have a prefix of "Learning Burst". These are short-targeted segments of online training that deliver basic and valuable knowledge in short "bursts" or sessions (10 minutes or less).</p>
 <p><b>Curriculum</b></p>	<p>A curriculum is a collection of online courses available as a complete package in the SPP Learning Center.</p>
 <p><b>Events</b></p>	<p>Events include both instructor-led and virtual instructor-led training (ILT and VILT) as a live delivery. Events will have one or more sessions to select time and location preference.</p>
 <p><b>Videos</b></p>	<p>Videos will have the play button icon to indicate a recorded video and/or audio file format.</p>
 <p><b>Materials</b></p>	<p>Materials are topic-specific objects available for the learner's reference in the SPP Learning Center. There are many types of reference materials available such as:</p> <ul style="list-style-type: none"> <li>• Job Aids</li> <li>• User Guides</li> <li>• Reference Guides</li> <li>• Reference Cards</li> </ul>

# SPP LEARNING CENTER INFORMATION

## CREATING AN ACCOUNT IN THE SPP LEARNING CENTER

First-time visitors to the SPP Learning Center must create an account using their business email address to gain access. The following information is needed to register and create a login account:

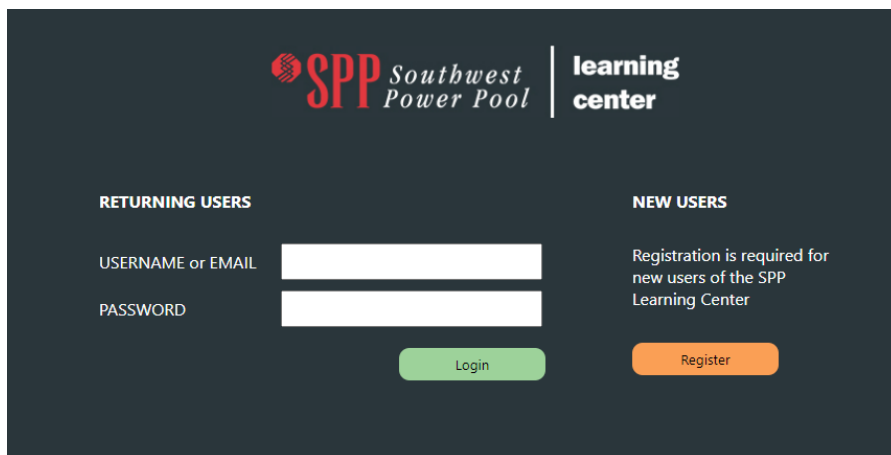
1. A valid business email address
2. Your entity registration status (i.e. Member or Non-Member)
3. Division/Company name of entity

## MEMBER VS. NON-MEMBER REGISTRATION STATUS

**MEMBER REGISTRATION** – Employees of SPP member companies.  
For a list of SPP member companies, go to the Member page of [SPP.org](https://spp.org).

**NON-MEMBER REGISTRATION** – Employees of non-member companies.  
This includes Market Participants, registered entities who are not SPP members, etc.

To create your account go to [spp.csod.com](https://spp.csod.com) and click **Register**. Contact [LMS@spp.org](mailto:LMS@spp.org) with any questions.



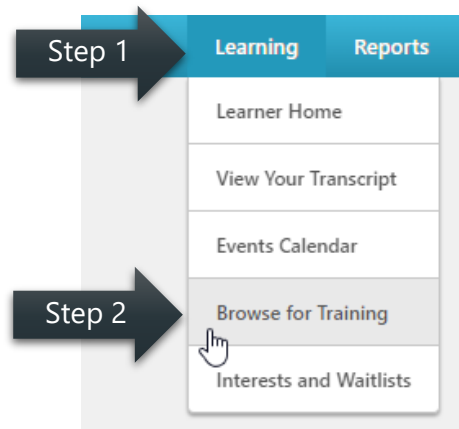
The screenshot shows the SPP Learning Center login and registration page. The header includes the SPP Southwest Power Pool logo and the text 'learning center'. Below the header, there are two columns: 'RETURNING USERS' and 'NEW USERS'. The 'RETURNING USERS' column has two input fields for 'USERNAME or EMAIL' and 'PASSWORD', followed by a green 'Login' button. The 'NEW USERS' column has a message: 'Registration is required for new users of the SPP Learning Center' and an orange 'Register' button.



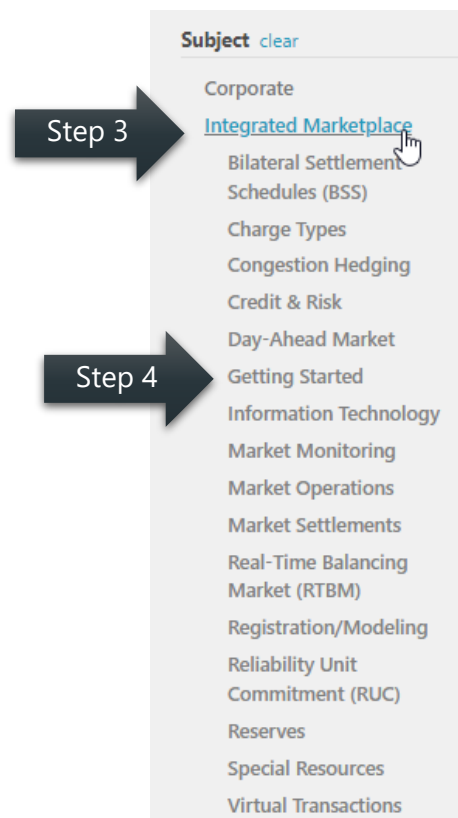
## BROWSE FOR TRAINING

After you create an SPP Learning Center account and log in with your credentials, follow the below steps to find Integrated Marketplace training by Subject areas.

1. Click on the **Learning** tab at the top of the page.
2. Select **Browse for Training** from the dropdown menu.



3. Click on the **Integrated Marketplace** Subject area to expand the selection.
4. Click on the desired Subject area to display a list of applicable training.



# KEY WORDS AND QUICK SEARCHES

Click on a keyword below to view the list of courses available for a given subject. Click on the images for each to take you to that subject in the Learning Center.

After logging in to the SPP Learning Center, use the "IMP" search keyword provided to search for all courses for a given topic.



## Getting Started

Keyword: [IMP01](#)



## Congestion Hedging

Keyword: [IMP02](#)



## Credit & Risk

Keyword: [IMP03](#)



## Information Technology

Keyword: [IMP04](#)



## Market Monitoring

Keyword: [IMP05](#)



## Market Operations

Sub-topics	Keyword
Market Operations	<a href="#">IMP06-GENERAL</a>
Virtual Transactions	<a href="#">IMP06-VIRTUAL</a>
Day-Ahead Market	<a href="#">IMP06-DA</a>
Reliability Unit Commitment (RUC)	<a href="#">IMP06-RUC</a>
Real-Time Balancing Market (RTBM)	<a href="#">IMP06-RTBM</a>
Reserves	<a href="#">IMP06-RESERVE</a>
Special Resources	<a href="#">IMP06-SPECIAL</a>



## Registration & Modeling

Keyword: [IMP07](#)



## Market Settlements

Sub-topics	Keyword
Market Settlements	<a href="#">IMP08-GENERAL</a>
Bilateral Settlement Schedules (BSS)	<a href="#">IMP08-BSS</a>
Charge Types	<a href="#">IMP08-CHARGETYPE</a>

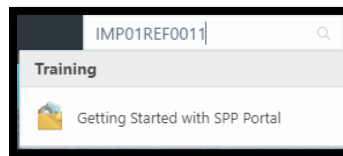
## USING QUICK SEARCHES TO LOCATE CONTENT

To find and request the training, the search capabilities discussed under [Browse for Training in the SPP Learning Center](#) and the keywords on the previous page can be used. A desired course can also be found by typing a **Course ID** or **Course Title**.

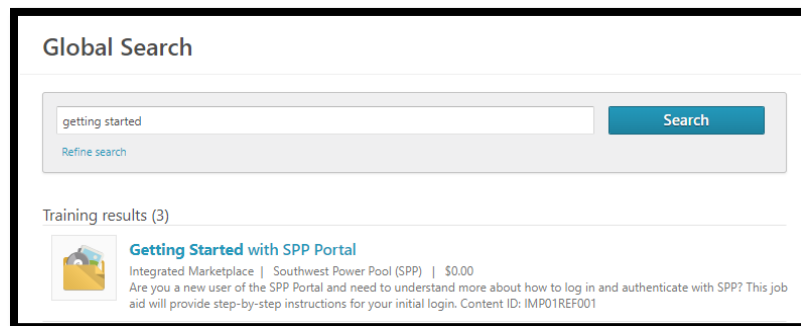
Title	Course ID	Format	Duration	AO	FO
Getting Started with SPP Portal	IMP01REF001	Materials (PDF)	n/a	X	X
Integrated Marketplace Overview	IMP01CUR003	Curriculum (9 Modules)	1 Hour, 26 Minutes	X	X
<i>Provides an overview of the SPP Integrated Marketplace and market fundamentals. The curriculum's nine modules include an Introduction, the Key Roles and Components, Key Features, Pre-Market Activities, the Day-Ahead Market, Reliability Unit Commitment, the Real-Time Balancing Market, Settlements, and Transmission Congestion Rights.</i>					
Lighting the Way: Integrated Marketplace Fundamentals	N/A	ILT*	12 Hours		
<b>TOTAL GETTING STARTED</b>	<b>3</b>		<b>13 Hours, 26 Minutes</b>		

**To locate the first course in the above table using a Course ID:**

Type "IMP01REF001" in the SPP Learning Center Search field in the upper right-hand corner of the home page.



The results from the search will look like this:



**To locate the same course using a Title:**

Type "Getting Started with SPP Portal" in the SPP Learning Center Search field.

The results will be the same as shown above.

# ONBOARDING: WHAT COURSES DO I NEED TO TAKE?

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Market Participants (MPs) are required to complete training during the onboarding process. Each course listed in this catalog will indicate if it is recommended for Asset-Owning MPs or Financial Only MPs, respectively, for onboarding.

If you are with an Asset-Owning (AO) entity, look for the "X" in the **AO** column to the right of the course title. If you are with a Financial Only (FO) entity, look for the "X" in the **FO** column to the right of the course title. **If there is NO "X" in either column, the course is not recommended for onboarding.** However, you are welcome to take the course, if desired.

Subject areas provide the best way to target which training you should take based on your role and responsibilities within your MP organization. You can find a list of those subject areas on [Page 5](#) of this catalog.

The [Getting Started](#) courses are the BEST place to begin your training and provide all MPs, regardless of role, an overview of the foundational concepts of the Integrated Marketplace.

Completion of additional training in this catalog will vary, depending on your role within your MP organization. However, SPP Stakeholder Training encourages AT LEAST one individual within each organization to complete ALL training listed during the onboarding process.

## **IMPORTANT ONBOARDING NOTE:**

All recommended training must be completed by one or more individuals within each organization.

Completion of this training will provide MPs with knowledge of the Marketplace concepts and activities necessary for efficient and effective participation in not only Member Training Environment (MTE) testing, but also in the production environment.

***While these courses provide learning opportunities that aid understanding, each MP organization will be expected to certify performance readiness upon completion of the onboarding process.***

Submit an Inquiry via the [Request Management System](#) (RMS) with any questions:

- Questions regarding the recommended training? Choose "Training" in the Subtype 1 field.
- Questions regarding onboarding? Access your Open Ticket in the RMS.

# MARKETPLACE COURSE CATALOG

## GETTING STARTED (IMP01)

Title	Course ID	Format	Duration	AO	FO
Getting Started with SPP Portal	IMP01REF001	Materials (PDF)	n/a	X	X
Integrated Marketplace Overview	IMP01CUR00300	Curriculum (9 Modules)	1 Hour, 26 Minutes	X	X
<p><i>Provides an overview of the SPP Integrated Marketplace and market fundamentals. The curriculum's nine modules include an Introduction, the Key Roles and Components, Key Features, Pre-Market Activities, the Day-Ahead Market, Reliability Unit Commitment, the Real-Time Balancing Market, Settlements, and Transmission Congestion Rights.</i></p>					
Lighting the Way: Integrated Marketplace Fundamentals <b>(NERC CEHs Available)</b>	N/A	ILT*	12 Hours		
<b>TOTAL GETTING STARTED</b>	<b>3</b>		<b>13 Hours, 26 Minutes</b>		

**Note:** Red asterisk (\*) indicates this course is an Instructor-Led course and will be offered annually. Dates and registration information will be available in the SPP Learning Center and emailed to SPP Learning Center users when available.

## CONGESTION HEDGING (IMP02)

Title	Course ID	Format	Duration	AO	FO
Acquiring TCRs in the Annual TCR Auction	IMP02CBT00100	Online eLearning	44 Minutes	<b>X</b>	<b>X</b>
Acquiring TCRs in the Monthly TCR Auction	IMP02CBT00200	Online eLearning	15 Minutes	<b>X</b>	<b>X</b>
Acquiring TCRs in the Secondary Market	IMP02CBT00300	Online eLearning	3 Minutes	<b>X</b>	<b>X</b>
ARR Allocation In-Depth Training – June 2013	IMP02REF002	Materials (PDF)	n/a		
Auction Revenue Rights (ARR) Overview	IMP02CBT00400	Online eLearning	16 Minutes	<b>X</b>	<b>X</b>
Long-Term Congestion Rights (LTCR) Overview	IMP02CBT00500	Online eLearning	15 Minutes	<b>X</b>	<b>X</b>
TCR Settlements	IMP02CBT00600	Online eLearning	12 Minutes	<b>X</b>	<b>X</b>
Transmission Congestion Rights (TCR) Market User Interface (MUI) Quick Reference Guide	IMP02REF006	Materials (PDF)	n/a	<b>X</b>	<b>X</b>
Transmission Congestion Rights (TCR) Overview	IMP02CBT00700	Online eLearning	16 Minutes	<b>X</b>	<b>X</b>
TCR Process Quick Reference Guide	IMP02REF007	Materials (PDF)	n/a	<b>X</b>	<b>X</b>

Title	Course ID	Format	Duration	AO	FO
Tying It All Together: ARRs and TCRs	IMP02CBT00800	Online eLearning	7 Minutes	<b>X</b>	<b>X</b>
Understanding Congestion	IMP02CBT00900	Online eLearning	7 Minutes	<b>X</b>	<b>X</b>
<b>TOTAL CONGESTION HEDGING</b>	<b>12</b>		<b>2 Hours, 15 Minutes</b>		

## CREDIT & RISK (IMP03)

Title	Course ID	Format	Duration	AO	FO
Calculating Credit Exposure for TCRs	IMP03CBT00100	Online eLearning	27 Minutes	X	X
Calculating Total Potential Exposure	IMP03CBT00200	Online eLearning	15 Minutes	X	X
Communication Mechanisms for Credit	IMP03CBT00300	Online eLearning	5 Minutes	X	X
Credit Events/Credit Defaults	IMP03CBT00400	Online eLearning	5 Minutes	X	X
Credit Policy Overview	IMP03CBT00500	Online eLearning	14 Minutes	X	X
<p><i>Provides the SPP key responsibilities for issuing credit, steps in the Credit Process, the credit assessments SPP evaluates to extend credit, types of credit information needed for SPP to extend credit. Also reviews the Material Adverse Changes to report to SPP and the timeline.</i></p>					
Credit Scoring Methodology	IMP03CBT00600	Online eLearning	10 Minutes	X	X
Determinants used for Credit Exposure Calculations	IMP03CBT00700	Online eLearning	12 Minutes	X	X
Reference Prices used for Credit Exposure Calculations	IMP03CBT00800	Online eLearning	9 Minutes	X	X
<b>TOTAL CREDIT &amp; RISK</b>	<b>8</b>		<b>1 Hour, 37 Minutes</b>		



## INFORMATION TECHNOLOGY (IMP04)

Title	Course ID	Format	Duration	AO	FO
ICCP Submission Tool Training Recording	IMP04CBT00500	Video	1 Hour		
Security and Key Systems for Market Participants	IMP04CBT00400	Online eLearning	6 Minutes	<b>X</b>	<b>X</b>
Using ICCP for Data Exchange with SPP	IMP04CBT00100	Online eLearning	6 Minutes	<b>X</b>	
<b>TOTAL INFORMATION TECHNOLOGY</b>	<b>3</b>		<b>1 Hour, 12 Minutes</b>		

## MARKET MONITORING (IMP05)

Title	Course ID	Format	Duration	AO	FO
Automatic Mitigations	IMP05CBT00100	Online eLearning	13 Minutes	<b>X</b>	<b>X</b>
Learning Burst: Market Mitigation	IMP05CBT00200	Online eLearning	7 Minutes	<b>X</b>	<b>X</b>
Learning Burst: Must Offer Requirement	IMP05CBT00700	Online eLearning	11 Minutes	<b>X</b>	
Market Mitigation Overview	IMP05CBT00300	Online eLearning	4 Minutes	<b>X</b>	<b>X</b>
Market Monitoring Overview	IMP05CBT00400	Online eLearning	10 Minutes	<b>X</b>	<b>X</b>
Market Power and Market Manipulation	IMP05CBT00500	Online eLearning	11 Minutes	<b>X</b>	<b>X</b>
Non-Automatic Mitigations	IMP05CBT00600	Online eLearning	8 Minutes	<b>X</b>	<b>X</b>
Overview of Opportunity Cost Calculator	IMP05REF00200	Materials (PDF)	n/a	<b>X</b>	
<b>TOTAL MARKET MONITORING</b>	<b>8</b>		<b>1 Hour, 4 Minutes</b>		

## MARKET OPERATIONS (IMP06-GENERAL)

Title	Course ID	Format	Duration	AO	FO
Blurring the Lines: Markets and Reliability <b>(NERC CEHs Available)</b>	N/A	ILT*	16 Hours		
Day-Ahead and Real-Time Markets: A Conceptual View	IMP06CBT00300	Online eLearning	12 Minutes	<b>X</b>	<b>X</b>
Daylight Savings Time Quick Reference Card	IMP06REF009	Materials (PDF)	n/a	<b>X</b>	<b>X</b>
Integrated Marketplace Demand Bids	IMP06CBT00700	Online eLearning	9 Minutes	<b>X</b>	<b>X</b>
Integrated Marketplace Supply Offers	IMP06CBT00800	Online eLearning	13 Minutes	<b>X</b>	
Introduction to Marketplace Co-optimization	IMP06CBT00900	Online eLearning	16 Minutes	<b>X</b>	<b>X</b>
Learning Burst: Time-Related Commitment Parameters	IMP06CBT01000	Online eLearning	8 Minutes	<b>X</b>	

**Note:** Red asterisk (\*) indicates this course is an Instructor-Led course and will be offered annually. Dates and registration information will be available in the SPP Learning Center and emailed to SPP Learning Center users when available.

Title	Course ID	Format	Duration	AO	FO
Locational Marginal Price: A Primer	IMP06CBT03200	Online eLearning	15 Minutes	<b>X</b>	<b>X</b>
Locational Marginal Price: Deconstructing the LMP	IMP06CBT30500	Online eLearning	10 Minutes	X	X
Locational Marginal Price: Loss Sensitivities and the MLC	IMP06CBT03300	Online eLearning	10 Minutes	<b>X</b>	<b>X</b>
Locational Marginal Price: Pricing Model and MEC	IMP06CBT03500	Online eLearning	14 Minutes	<b>X</b>	<b>X</b>
Locational Marginal Price: Shift Factors, Shadow Price, and MCC	IMP06CBT03400	Online eLearning	14 Minutes	<b>X</b>	<b>X</b>
Locational Marginal Price: What's Reference Bus have to do with LMP?	IMP06CBT03201	Online eLearning	6 Minutes	<b>X</b>	<b>X</b>
Locational Marginal Price: DLMP vs. LMP	IMP06CBT04000	Online eLearning	4 Minutes	<b>X</b>	<b>X</b>
Market Clearing Algorithms	IMP06CBT01200	Online eLearning	18 Minutes	<b>X</b>	<b>X</b>
Market to Market Overview	IMP06CBT01400	Online eLearning	43 Minutes		

Title	Course ID	Format	Duration	AO	FO
Multi-Day Forecast Learning Burst	IMP06VID00200	Video	11 Minutes	X	
Overview of Market-to-Market Processes	IMP06VID00100	Video	18 Minutes		
SPP Marketplace Timelines Quick Reference Card	IMP06REF00300	Materials (PDF)	n/a	X	X
Untangling the Knots: The Impact of the 2021 Winter Storm Event on Marketplace Processes and Settlements	IMP06CUR30000	Curriculum (6 Modules & 2 Materials)	1 Hour, 17 Minutes		
What's the Skinny on VRLs and Demand Curves	IMP06CBT03100	Online eLearning	40 Minutes		
Market Outages in the Integrated Marketplace	IMP06CBT04200	Online eLearning	9 Minutes	X	
Dispatch Target Adjustment	IMP06CBT04300	Online eLearning	17 Minutes	X	
<b>TOTAL MARKET OPERATIONS</b>	<b>23</b>		<b>22 Hours, 4 Minutes</b>		

## DAY-AHEAD MARKET (IMP06-DA)

Title	Course ID	Format	Duration	AO	FO
Day-Ahead Market Timeline and Activities	IMP06CBT00400	Online eLearning	15 Minutes	<b>X</b>	<b>X</b>
<i>Identifies the objectives of the Day-Ahead (DA) Market, the DA Market timeline, characteristics, and algorithms used by the Market Clearing Engine during the DA process. Identifies how the DA Market is executed, clears, and the expected results and communication schedule of the DA Market. Also identifies the types of resources that are eligible for Make-Whole Payments.</i>					
<b>TOTAL DAY-AHEAD MARKET</b>	<b>1</b>		<b>15 Minutes</b>		

## REAL-TIME BALANCING MARKET (IMP06-RTBM)

Title	Course ID	Format	Duration	AO	FO
Control Status Reference Guide	IMP06REF01100	Materials (PDF)	n/a	<b>X</b>	
Ramp Rate Interactions	IMP06CBT02000	Online eLearning	22 Minutes	<b>X</b>	
Real-Time Balancing Market Timeline and Activities	IMP06CBT02100	Online eLearning	21 Minutes	<b>X</b>	
Uninstructed Resource Deviation	IMP06CBT04400	Online eLearning	15 Minutes	<b>X</b>	
<b>TOTAL REAL-TIME BALANCING MARKET (RTBM)</b>	<b>4</b>		<b>58 Minutes</b>		

## RELIABILITY UNIT COMMITMENT (IMP06-RUC)

Title	Course ID	Format	Duration	AO	FO
Reliability Unit Commitment Process	IMP06CBT02200	Online eLearning	20 Minutes	<b>X</b>	
RUC – Day-Ahead	IMP06CBT03500	Online eLearning	5 Minutes	<b>X</b>	
RUC – Intra-Day and Short-Term	IMP06CBT03600	Online eLearning	4 Minutes	<b>X</b>	
RUC – Multi-Day Reliability Assessment	IMP06CBT03400	Online eLearning	4 Minutes	<b>X</b>	
RUC – Reliability Unit Commitment – Introduction	IMP06CBT03300	Online eLearning	7 Minutes	<b>X</b>	
<b>TOTAL RELIABILITY UNIT COMMITMENT (RUC)</b>	<b>5</b>		<b>40 Minutes</b>		

## RESERVES (IMP06-RESERVE)

Title	Course ID	Format	Duration	AO	FO
How to Clear Operating Reserve Products: A Checklist	IMP06REF006	Materials (PDF)	n/a	<b>X</b>	
Overview of Reserve Zones	IMP06CBT01600	Online eLearning	23 Minutes	<b>X</b>	
Quick Reference Card: Submitting Online Supplemental	IMP06REF004	Materials (PDF)	n/a	<b>X</b>	
Ramp Capability Product Overview	IMP06CBT03700	Online eLearning	54 Minutes	<b>X</b>	
Uncertainty Reserve Product	IMP06CBT04100	Online eLearning	26 Minutes	<b>X</b>	
<b>TOTAL RESERVES</b>	<b>4</b>		<b>1 hour, 43 Minutes</b>		



## SPECIAL RESOURCES (IMP06-SPECIAL)

Title	Course ID	Format	Duration	AO <sup>^</sup>	FO
An Overview of Fast-Start Resources	IMP06CBT03900	Online eLearning	30 Minutes	<b>X</b>	
Block Demand Response (BDR) Resources	IMP06CBT00100	Online eLearning	34 Minutes	<b>X</b>	
Dispatch Flags for Variable Energy Resources (VERs) Reference Card	IMP06REF00800	Materials (PDF)	n/a	<b>X</b>	
Dispatchable Demand Response (DDR) Resources	IMP06CBT00500	Online eLearning	33 Minutes	<b>X</b>	
Dispatchable Variable Energy Resources (DVERs)*	IMP06CBT00600	Online eLearning	34 Minutes	<b>X</b>	
EDR Quick Reference Card	IMP06REF007	Materials (PDF)	n/a	<b>X</b>	
Market Storage Resources (MSRs) Self-Study Curriculum	IMP06CUR10000	Curriculum (8 Modules & 1 Material)	1 hour, 52 Minutes	<b>X</b>	
Non-Dispatchable Variable Energy Resources (NDVERs)*	IMP06CBT01500	Online eLearning	28 Minutes	<b>X</b>	
Pseudo-Tied Assets	IMP06CBT01800	Online eLearning	30 Minutes	<b>X</b>	
<b>TOTAL SPECIAL RESOURCES</b>	<b>9</b>		<b>5 Hours, 1 Minute</b>		

## VIRTUAL TRANSACTIONS (IMP06-VIRTUAL)

Title	Course ID	Format	Duration	AO	FO
Calculating Credit Exposure for Virtuals	IMP06CBT00200	Online eLearning	7 Minutes	<b>X</b>	<b>X</b>
Market Monitoring Implications for Virtuals	IMP06CBT01300	Online eLearning	3 Minutes	<b>X</b>	<b>X</b>
Overview of Virtual Credit Requirements	IMP06CBT01700	Online eLearning	5 Minutes	<b>X</b>	<b>X</b>
Virtual Credit Limits and Credit Exposure	IMP06CBT02300	Online eLearning	5 Minutes	<b>X</b>	<b>X</b>
Virtual Reference Prices	IMP06CBT02400	Online eLearning	6 Minutes	<b>X</b>	<b>X</b>
Virtual Transactions Examples	IMP06CBT02500	Online eLearning	10 Minutes	<b>X</b>	<b>X</b>
Virtual Transactions Overview	IMP06CBT02600	Online eLearning	5 Minutes	<b>X</b>	<b>X</b>
Virtuals as a Hedging Mechanism	IMP06CBT02700	Online eLearning	12 Minutes	<b>X</b>	<b>X</b>
<b>TOTAL VIRTUAL TRANSACTIONS</b>	<b>8</b>		<b>53 Minutes</b>		

## REGISTRATION & MODELING (IMP07)

Title	Course ID	Format	Duration	AO	FO
Commercial Model Overview	IMP07CBT00100	Online eLearning	6 Minutes	X	X
Jointly Owned Unit (JOU) and Combined Interest Resource (CIR)	IMP07CBT00900	Online eLearning	7 Minutes	X	
Market Timelines and Requirements for Model Updates	MKT07CBT10000	Online eLearning	6 Minutes	X	
Model Configuration Option Examples	IMP07CBT00300	Online eLearning	24 Minutes	X	
Network Model Overview	IMP07CBT00400	Online eLearning	3 Minutes	X	
Registration Configuration Effect on Asset Operations	IMP07CBT00500	Online eLearning	3 Minutes	X	
Relationship Between Commercial, Network and TCR Models	IMP07CBT00600	Online eLearning	7 Minutes	X	
Resource Asset Registration: A Reference Guide for Market Participants	IMP07REF00200	Materials (PDF)	n/a	X	
<b>TOTAL REGISTRATION &amp; MODELING</b>	<b>8</b>		<b>56 Minutes</b>		

## MARKET SETTLEMENTS (IMP08-GENERAL)

Title	Course ID	Format	Duration	AO	FO
Market Settlement: Disputes	IMP08CBT10500	Online eLearning	5 Minutes	X	X
Market Settlement: Meter Data	IMP08CBT10200	Online eLearning	14 Minutes	X	
Market Settlement: Reports	IMP08CBT10300	Online Learning	15 Minutes	X	X
Market Settlement: Overview	IMP08CBT10100	Online eLearning	5 Minutes	X	X
Regulation Compensation Overview	IMP08CBT01500	Online eLearning	30 Minutes	X	
<b>TOTAL MARKET SETTLEMENTS</b>	<b>5</b>		<b>1 Hour, 9 Minutes</b>		

**Note:** Red asterisk (\*) indicates this course is also listed under the Market Operations subject.

## BILATERAL SETTLEMENT SCHEDULES (IMP08-BSS)

Title	Course ID	Format	Duration	AO	FO
Market Settlement: Bilateral Settlement Schedules (BSS) Examples	IMP08CBT00300	Online eLearning	8 Minutes	<b>X</b>	<b>X</b>
Market Settlement: Bilateral Settlement Schedules (BSS) Overview	IMP08CBT00200	Online eLearning	12 Minutes	<b>X</b>	<b>X</b>
Market Settlement: Bilateral Settlements Schedule (BSS) Quick Reference Card	IMP08REF001	Materials (PDF)	n/a	<b>X</b>	<b>X</b>
<b>TOTAL BILATERAL SETTLEMENT SCHEDULES (BSS)</b>	<b>3</b>		<b>20 Minutes</b>		

## CHARGE TYPES (IMP08-CHARGETYPE)

Title	Course ID	Format	Duration	AO	FO
ARR and TCR Charge Types	IMP08CBT00100	Online eLearning	4 Minutes	<b>X</b>	<b>X</b>
Deep Dive into Over-Collected Losses	IMP08CBT02100	Online eLearning	15 Minutes	<b>X</b>	
Demand Response Charge Types	IMP08CBT00500	Online eLearning	2 Minutes	<b>X</b>	
Energy Charge Types	IMP08CBT00600	Online eLearning	15 Minutes	<b>X</b>	<b>X</b>
Incremental and Self-Incremental MWP	IMP08CBT10700	Online eLearning	16 Minutes	<b>X</b>	
Local Reliability	IMP08CBT10600	Online eLearning	10 Minutes	<b>X</b>	
Make-Whole Payment Charge Types	IMP08CBT00800	Online eLearning	17 Minutes	<b>X</b>	
Multi-Day Minimum Runtime (MDMRT) & Make-Whole Payment (MWP) Eligibility	IMP08CBT02300	Online eLearning	21 Minutes	<b>X</b>	
Operating Reserve Charge Types	IMP08CBT01200	Online eLearning	4 Minutes	<b>X</b>	
Other Charge Types	IMP08CBT01300	Online eLearning	5 Minutes	<b>X</b>	<b>X</b>
Over-Collected Losses Charge Types	IMP08CBT01400	Online eLearning	4 Minutes	<b>X</b>	
Revenue Neutrality Uplift Charge Types	IMP08CBT01600	Online eLearning	3 Minutes	<b>X</b>	

Title	Course ID	Format	Duration	AO	FO
Schedule 1A Charge Types	IMP08CBT02200	Online eLearning	5 Minutes	<b>X</b>	<b>X</b>
<b>TOTAL CHARGE TYPES</b>	<b>11</b>		<b>2 Hours, 1 Minute</b>		

# OTHER REFERENCE MATERIALS ON SPP.ORG

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Other materials available on SPP.org are listed here as additional resources.

Several “user guides” reside on SPP.org and can be found by either clicking the links below or searching with the document name using the Search option from the home page.

Name	Description
<a href="#"><u>Integrated Marketplace Markets User Interface Guide</u></a>	A reference guide for Market Participants that describes how to submit bids and offers as well as view Market results in the Markets User Interface (UI). The following functional areas, presented as tabs in the UI, are described in this document: Administration, Demand Bids, Load Forecast, Market, Reserve Zone, Resource Offers, and Virtual Energy Bids and Offers.
<a href="#"><u>Marketplace Markets Web Service</u></a>	A reference document for Market Participants who interact with the Marketplace system using XML.
<a href="#"><u>SPP Marketplace Public Data Guide and Samples</u></a>	This guide provides information and links to Public Data available for Marketplace.
<a href="#"><u>Interchange Scheduling Reference Manual</u></a>	The purpose of the Interchange Scheduling Reference Manual is to provide Transmission Customers (TCs) and Market Participants (MPs) information on the business rules that are to be followed when scheduling with the SPP Balancing Authority and the Integrated Marketplace. Additionally, this document will allow the TC/MP the information necessary to assist them in determining if there are system changes related to Scheduling that they must make within their own companies. This document is a reference manual only and is not an official SPP Governing Document.



<p><b><u><a href="#">Transmission Service Reference Manual</a></u></b></p>	<p>The purpose of the Transmission Service Reference Manual is to provide new Transmission Customers and Market Participants information about acquiring Transmission Service.</p> <p>This document is a companion to the Interchange Scheduling Reference Manual, which describes the business rules for scheduling with the SPP Balancing Authority and the Integrated Marketplace. This document is a reference manual; it is not an official SPP Governing Document.</p>
<p><b><u><a href="#">Settlement User Interfaces Guide</a></u></b></p>	<p>A reference guide for users supporting Market and/or Transmission Settlement activities. This guide describes how to submit, and if applicable, approve input data, register for event notifications, view reports and Settlement results (e.g. invoices, statements) via user interfaces available in the Marketplace Portal.</p>
<p><b><u><a href="#">MP Guide SPP 2024 Congestion Hedging</a></u></b></p>	<p>A guide providing information for preparation of Integrated Marketplace’s Congestion Hedging (also known as “TCR” activities).</p>
<p><b><u><a href="#">Congestion Hedging 2024 Calendar</a></u></b></p>	<p>Calendar of all TCR Market Process activities dates and timelines.</p>

# APPENDIX: ACRONYMS AND INITIALISMS

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ARR	Auction Revenue Rights
BDR	Block Demand Resource
BSS	Bilateral Settlement Schedule
CBT	Computer-Based Training
DDR	Demand Response Resource
DVER	Dispatchable Variable Energy Resource
EDR	External Dynamic Resource
FAQ	Frequently Asked Questions
ICCP	Inter-Control Center Communications
ILT	Instructor-Led Training
LMP	Locational Marginal Price
LMS	SPP Learning Center
LTCR	Long-Term Congestion Rights
MCC	Marginal Congestion Component
MEC	Marginal Energy Component
MLC	Marginal Loss Component
MP	Market Participant
MSR	Market Storage Resource
MUI	Markets User Interface
NDVER	Non-Dispatchable Variable Energy Resource
PDF	Portable Document Format
RTBM	Real-Time Balancing Market
RUC	Reliability Unit Commitment
SPP	Southwest Power Pool
TC	Transmission Customer
TCR	Transmission Congestion Rights
UI	User Interface

VER	Variable Energy Resource
VILT	Virtual Instructor-Led Training
VRL	Violation Relaxation Limit
XML	Extensible Markup Language