

# Provider Reference and User Guide

# December 2024

# **RELIABILITY | RESILIENCE | SECURITY**



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# Preface

Electricity is a key component of the fabric of modern society and the Electric Reliability Organization (ERO) Enterprise serves to strengthen that fabric. The vision for the ERO Enterprise, which is comprised of the North American Electric Reliability Corporation (NERC) and the six Regional Entities, is a highly reliable and secure North American bulk power system (BPS). Our mission is to assure the effective and efficient reduction of risks to the reliability and security of the grid.

#### Reliability | Resilience | Security Because nearly 400 million citizens in North America are counting on us

The North American BPS is made up of six Regional Entity boundaries as shown in the map and corresponding table below. The multicolored area denotes overlap as some load-serving entities participate in one Regional Entity while associated Transmission Owners/Operators participate in another.



MRO	Midwest Reliability Organization
NPCC	Northeast Power Coordinating Council
RF	ReliabilityFirst
SERC	SERC Reliability Corporation
Texas RE	Texas Reliability Entity
WECC	WECC

# Summary

The Credential Maintenance Program Administrative Manual<sup>1</sup> (CM Manual) provides the framework for the Credential Maintenance Program. It is the provider's responsibility to read and understand the CM Manual.

The CM Manual is located on the System Operator Certification and Credential Maintenance Program<sup>2</sup> page on NERC.com<sup>3</sup> under One-Stop Shop<sup>4</sup>.

The Provider Reference and User Guide provides System Operator Certification and Continuing Education Database (SOCCED) information and a how to reference for providers. This guide references the CM Manual numerous times. NERC staff recommends providers refer to the CM Manual when noted in the guide.

Please submit additional topic suggestions or feedback via a SOCCED Help Desk<sup>5</sup> ticket.

<sup>&</sup>lt;sup>1</sup> <u>https://www.nerc.com/pa/Train/SysOpCert/System%20Operator%20Certification%20DL/CM\_Program\_Manual\_v1.2.pdf</u>

<sup>&</sup>lt;sup>2</sup> <u>https://www.nerc.com/pa/Train/SysOpCert/Pages/default.aspx</u>

<sup>&</sup>lt;sup>3</sup> <u>https://www.nerc.com/Pages/default.aspx</u>

<sup>&</sup>lt;sup>4</sup> <u>https://www.nerc.com/pa/Train/SysOpCert/Pages/SOOneStopShop.aspx</u>

<sup>&</sup>lt;sup>5</sup> <u>https://soccedsupport.zendesk.com/hc/en-us/requests/new</u>

# System Operator Certification (SOC) and Credential Maintenance Program

In support of NERC's mission, the SOC Program promotes the reliability of the North American BPS by ensuring that employers have a workforce of System Operators (SO) that meet minimum qualifications. NERC monitors SOs to ensure they maintain the required credentials to work in system control centers across North America. NERC's SOC exam tests specific knowledge of job skills and reliability standards. It also prepares operators to handle the BPS during normal and emergency operations. SOs maintain certification by completing NERC-approved Credential Maintenance Program courses and activities. These industry-accepted qualifications are set through internationally recognized processes and procedures for agencies that certify persons.

#### Governance

The Personnel Certification Governance Committee (PCGC)<sup>6</sup> is a NERC standing committee that provides oversight to the policies and processes used to implement and maintain the integrity and independence of the NERC SOC program. The PCGC provides reports to the NERC Board of Trustees and NERC President regarding the governance and administration of the SOC program.

The Credential Maintenance Working Group (CMWG)<sup>7</sup> reports to the PCGC and is responsible for developing and maintaining the Credential Maintenance Program under the general guidelines set by the PCGC, including:

- 1. Development and implementation of NERC Credential Maintenance Program requirements to ensure qualitylearning activities for use in NERC Certified System Operator credential maintenance.
- 2. Development and maintenance of a process to approve credential maintenance providers and learning activities that meet the PCGC credential maintenance requirements.
- 3. Periodic audits of credential maintenance providers and training activities to ensure the approved providers and training activities satisfy the PCGC credential maintenance requirements.
- 4. Development and maintenance of a multi-level review process for disputed application reviews, probation, or suspension of NERC-approved provider status, and Continuing Education Hours (CEH) disputes.

<sup>&</sup>lt;sup>6</sup> https://www.nerc.com/comm/PCGC/Pages/default.aspx

<sup>&</sup>lt;sup>7</sup> <u>https://www.nerc.com/comm/PCGC/Pages/CMWG.aspx</u>

## **Credential Maintenance Program**

NERC's Credential Maintenance Program acknowledges high-quality learning activities within the electric utility industry by approving continuing education providers that meet NERC guidelines and standards. Information on becoming a NERC-recognized continuing education provider can be found in the CM Manual.

#### **Provider Functions in SOCCED:**

Continuing Education providers can access SOCCED<sup>8</sup> to do the following:

#### Level 1 Providers

- 1. Create a new provider account
- 2. Access an existing provider user account
- 3. Update provider user profile
- 4. Update organization profile
- 5. Manage provider users
- 6. Apply and/or renew provider account (Level 1 or Level 2)
- 7. View system operator transcripts and certificate renewal progress<sup>10</sup>
- 8. View order history

#### Level 2 and Level 3 Providers

- 1. Create a new provider account
- 2. Access an existing provider user account
- 3. Update provider user profile
- 4. Update organization profile
- 5. Manage provider users
- 6. Apply/change/renew provider account (Level 1, 2, or 3)
- 7. Submit supplemental documentation for Individual Learning Activities (ILAs)/audits
- 8. Submit individual learning activity (ILA) applications
- 9. Renew ILAs
- 10. Review the status of existing courses
- 11. Award, edit or delete CEHs for delivered courses
- 12. View system operator transcripts and certificate renewal progress<sup>10</sup>
- 13. View order history

<sup>&</sup>lt;sup>8</sup> https://nerc-socced.useclarus.com

# **Chapter 1: Creating and Updating Provider User Accounts**

# Creating an Account in SOCCED

**TIP** – If the organization has an existing account in SOCCED and a user should have access, *skip* to **Inviting a Provider User**. For the system to associate a new provider user account with the existing organization's account, the primary user of the account must invite the user via SOCCED to have access. If the primary user is no longer with the organization, submit a ticket via the SOCCED Help Desk,<sup>9</sup> a NERC SOCCED Administrator will assist.

If the organization does not have an existing account with SOCCED and the person creating the account will be the primary user, please follow the steps below.

To *create* a provider account in SOCCED, go to the SOCCED database and *click* on **Create Provider Account**.

NERC		
Home	Please log in.	
ACCOUNTS		
Reset password	Username:	•
Create System Operator		
Account Create Provider Account	Password:	
		Login

During the process, the provider user will be prompted to create a username and password and provide other pertinent information.

- Username: Determined by provider user
- First Name: First name on driver's license or other form of legal ID
- Middle Name: Optional (for common first and last names, please use middle initial, at a minimum.)
- Last Name: Last name on driver's license or other form of legal ID

<sup>&</sup>lt;sup>9</sup> <u>https://soccedsupport.zendesk.com/hc/en-us/requests/new</u>

Chapter 1:	Creating and	Updating	Provider	User /	Accounts
------------	--------------	----------	----------	--------	----------

Home		You have to fill out the us	er profile first i	n order to apply for provider.		
ACCOUNTS		(*) denotes a required field				
Reset password Create System Opera	ator					
Account Create Provider Acco		Account Informatio	n			
orester Howder Act	ount	U	ser Name *			
		Emai	I Address *			
			Password			
		Confirm	n Password			
		Primary Provider U	ser Profile	2		
		Fi	irst name *			
		мі	ddle Name			
			ast name *			
		L	aschame			
			Job title			
	Compa	ny Address				
		Address *				
		Address (cont.)				
		City •				
		Country *	Select an O	ption	•	
		State *	Select an O	ption	•	
		Postal Code *				
		Phone Number *	•			
		Alexander Di este				
		Alternate Phone	•			
			Submit			

# **Updating User Profile**

The provider user has the ability to make changes to contact information by updating the user profile in SOCCED.

- 1. Login in to SOCCED
- 2. Select Dropdown arrow and select User Profile

IERC		test_provider_level1_ns •
IABILITY CORPORA	10N	Test Provider Lev
A Home		User Profile
\$ My Purchases	Notifications	Organization Profile
PROVIDER		Logout
C Apply		
PROVIDER USERS		
2+ Invite Users		
🚰 Manage Users		

3. Select Update Profile



- a. Make necessary changes
- b. Select Save Changes

## **Updating Organization Profile**

The primary provider user can update the organization's contact information by updating the organization profile in SOCCED.

- 1. Login in to SOCCED
- 2. Select Dropdown arrow and select User Profile

NERC Providers Portal	L nerc_nsantos →
	Nasheema Santos
	Organization Profile
Notifications	User Profile
	Change Password

3. Select Update Profile

C Update profile
------------------

- a. Make necessary changes
- b. Select Save Changes

## Logging into a Provider User Account

Go to the SOCCED database and use the credentials used when the provider user account was created.

## **Duplicate SOCCED Accounts**

Provider users should not create duplicate accounts. Duplicate SOCCED accounts are prohibited. NERC completes routine audits on duplicate accounts. If found, NERC will move forward in closing the duplicate account(s), and the provider user will potentially lose information.

If the provider user cannot recall the username/password, submit a ticket to the SOCCED Help Desk, a NERC SOCCED administrator will assist.

## Forgot Username / Password

• Submit a ticket via the SOCCED Help Center<sup>10</sup>.

Include full name, email address, and phone number

# **Help Desk**

NERC Staff manages and responds to SOCCED System Operator and Credential Maintenance Program questions typically within 48 business hours (excluding holidays and weekends).

- Help Desk: (404) 446-9759 (General Questions; M-F 8:30 a.m. 5:00 p.m. Eastern)
- Submit a Request to the SOCCED helpdesk.

Include full name, email address, and phone number.

Table 1.1: Help Desk Initial Contact		
Day Ticket Received	Initial Response by NERC Administrator No Later Than	
Sunday	Tuesday	
Monday	Wednesday	
Tuesday	Thursday	
Wednesday	Friday	
Thursday	Monday	
Friday	Monday	
Saturday	Tuesday	

<sup>&</sup>lt;sup>10</sup> <u>https://soccedsupport.zendesk.com/hc/en-us/requests/new</u>

# **Chapter 2: Provider Applications**

There are three types of provider applications<sup>11</sup>:

- 1. Initial Application as a Level 1 or Level 2
- 2. Initial Application as a Level 3
- 3. Renewal application (all levels)

At the time of submitting an initial application for an organization that does not have an account in SOCCED, the provider user must follow the steps below:

The provider user must first create a profile. See Chapter 1: Creating and Updating Provider User Accounts.

# **Initial Application for Level 1 and Level 2 Providers**

Provider users with an account in SOCCED that has not been associated to an existing organization can create a Provider Organization account at the time they create a provider user account. See **Chapter 1: Creating and Updating Provider User Accounts** .

After creating the provider user account, users must:

- 1. Go to Apply menu in the provider user account
- 2. Select Level 1 or Level 2 provider (make sure the correct one is selected)
- 3. Complete all of the required fields in the Provider Profile section
  - a. Level 2 Providers will also have to complete a Provider Application section
- 4. Submit application fee

NERC	
✿ Home \$ My Purchases	Profile Created
PROVIDER	
C Apply	Notifications
	No notifications to display

<sup>&</sup>lt;sup>11</sup> Criteria can be found in the CM Manual - https://www.nerc.com/pa/Train/SysOpCert/Pages/SOOneStopShop.aspx

#### **Level 1 Providers**

Primary Contact		
Do you understand that in creating this profile, you are the primary administrator?	Yes No	
Company Information		
Company Name *		
Address *		
Address (cont.)		
City *		
Country	Select an Option	Ŧ
State	Select an Option	•
Postal Code *		
Finish & Pay	Save & Close	

Level 1 provider applications will be automatically approved once the fee is paid. The account will be active effective immediately.

#### **Level 2 Providers**

If the organization applied to become a Level 2 provider, the provider user will also have to complete the **Provider Application** section and will have to submit supporting documentation per Chapter 3 of the CM Manual. The application will be reviewed by the CMWG to determine if the organization's application will be approved.

#### **Chapter 2: Provider Applications**

A Home	Provider Profile Provider Application Application Documents
\$ My Purchases	General Information
PROVIDER	
🖻 Apply	Do you offer learning activities open to Yes No
	the public?*
	What types of CE programs will you offer? (Mark all that apply)
	Classroom
	Uvrkshop/Seminar
	Conference
	Internet-based
	Operator Training Simulation
	Computer-Based (CBT)
	Concerned information about CE Decomposition intend to offer
	General Information about CE Programs you intend to offer
	Describe the curriculum you plan to develop
	Describe the procedures for updating
	your curriculum to reflect industry changes.
	Briefly, describe the procedures to be used in evaluating a participant's performance in a CE learning activity,
	Briefly, describe the procedures to be
	used to manage and verify participant
	attendance.
	Acknowledgement
	attendance.
	Acknowledgement Have you reviewed the Continuing * Yes No
	attendance.         Acknowledgement         Have you reviewed the Continuing *         Yes         Education Administrative Manual?         Have you reviewed the Provider *

#### **Chapter 2: Provider Applications**

Home	Provider Profile Provider Application Application Documents	
My Purchases	For each document attached to this application, please indicate the appropriate docume	ent type.
VIDER	Select Files	
Apply		
	Drag & drop files here .	
	Select files	🗁 Browse

## **Application to become a Level 3 Provider**

In order to apply for a Level 3 provider status, the organization must have been operating successfully as a Level 2 provider for a minimum of one year. Once approved to become a Level 3 provider, the organization renews every three years.

Providers looking to apply to become a Level 3 provider at the time of renewal must go to the Upgrade/Renew button on the dashboard.



Once an application has been submitted to become a Level 3 provider, the NERC CE Administrator will verify that the provider is eligible to proceed. The NERC CE Administrator will contact the provider with follow up instructions.

## **Renewal (all Provider Levels)**

Provider users will have the ability to renew the organization's provider status within 90 days of the organization's expiration date. All providers must meet minimum requirements to renew according to the terms of the provider

status level (refer to the CM Manual). Primary users of all organizations have to log into the provider user account and select the Upgrade/Renew option.

NOTE: To upgrade from a Level 1 to a Level 2 or from a Level 2 to a Level 3, please see the application process.

Level 1 and Level 2 providers must submit a renewal application annually via SOCCED. The provider's primary user should select the type of account the organization wishes to renew as. Level 1 providers have the option to renew as a Level 1.

Level 2 providers have the option to renew as a Level 2 (if associated audit and active ILA requirements are met) or downgrade to a Level 1.

Level 3 providers have the option to renew as a Level 3, downgrade to a Level 2 (if associated audit and active ILA requirements are met, respectively) or downgrade to a Level 1.

# **Timing of Renewals**

Once providers have met the requirements to renew the organization's provider status and paid the renewal fee, the system will update and reflect the new expiration date. Requirements must be met (including the application renewal fee) by 11:59 p.m., Eastern the evening prior to the expiration date. See the Example below.

#### Example

An organization with an active provider status from August 2, 2017, to August 2, 2020, will have to meet the renewal requirements prior to the organization's expiration date of August 2, 2020. If requirements are not met by 11:59 p.m., Eastern on August 1, 2020, the provider status will change to suspended by 12:00 a.m. August 2, 2020. If the organization goes into suspension, it will not be able to carry out any of the functions allowed in the SOCCED account.

If renewal requirements are not met within 90 days after the organization's expiration date, the organization's provider status will expire. If the organization has expired, but the organization wishes to reinstate the organization's account, submit a ticket via the SOCCED Help Desk and a NERC SOCCED Administrator will advise on the next steps to take.

## **Time Zone**

SOCCED operates in the Eastern Prevailing Time Zone. Providers should note the time zone to prevent a timing issue when completing the provider renewal. As shown in **Table 2.1** below, if the provider user/organization is located in the Pacific time zone, the organization's renewal will have to be completed by 9:00 p.m. Pacific the evening prior to the expiration date.

Table 2.1: Renewals	Cutoff Time by Time Zone
Time Zone	Time
Eastern	12:00 a.m.
Central	11: 00 p.m.
Mountain	10: 00 p.m.
Pacific	9: 00 p.m.

# **Provider Renewal Payment Timing**

When renewing the organization's provider status, the provider user must take into account the payment processing time. SOCCED does not allow renewal until the payment has processed.

Table 2.2: Provider	Renewal Payment Timing	
Payment Type Processing Time		
Credit Card	Allow 24-48 Hours	
Check	Allow 7 - 10 Days	

The Table 2.2 below shows the amount of time needed for payment via credit card and check.

#### Paying by credit card

**Example:** If the provider's expiration date is October 13, credit card payment must be submitted before October 11 to allow sufficient time for the payment to process.

#### Paying by check

**Example:** If the provider's expiration date is October 13, the provider user must submit the check payment before October 2 so that the organization can renew its provider status prior to October 12 at 00:00.

• Provider users that select the check payment type should include name and order number on the check. Check payments are sent to the following lockbox address:

#### NERC PO Box 531652 Atlanta, GA 30353-1652

# **Chapter 3: Managing Provider Users**

# Definition

The *primary user* of an organization is the main contact for the organization. The primary user will be responsible for maintaining up-to-date contact information for the organization.

**NOTE:** The primary user is responsible for any audit process for the organization (Level 2 or Level 3). The NERC Program Coordinator and the Continuing Education Review Panel (CERP) will contact the person listed in the database as the primary user.

A *provider user* is someone within the organization that is able to access the organization's SOCCED account. All provider users within the same organization will be able to carry out the same functions, with the exception of the audit/renewal process.

# Adding Provider Users to an Existing Organization's Account

If the organization has an existing account in SOCCED, new users must be invited by the primary user via SOCCED following the steps listed below:

- 1. The primary user must log into the provider user account in SOCCED.
- 2. *Click* on **Invite Users**



3. Enter the new user's email address and select Send Invitation

The new user will receive an email that will prompt the user to create a profile. Creating the profile via the link provided in the email, will automatically associate the new provider user account with the existing organization account.

# **Deactivating a Provider User's Account**

The primary user of an account should deactivate users that should no longer have access to the organization's account (either due to leaving the company or a change in the role).

To deactivate a provider user, the primary user:

- 1. Must log in to the provider user account in SOCCED.
- 2. Click on Manage Users



3. Click the Deactivate button next to the user's name

Provider Use	rs			
First Name	Last Name	Email Address	Status	Action
			active	Deactivate

# **Chapter 4: Individual Learning Activities (ILAs)**

## Locating and Generating a New ILA Form

The following pages show step-by-step instructions on how to access, generate, and submit a new ILA form.

#### Visit SOCCED here:

https://nerc-socced.useclarus.com and log into your account.

1. Enter Username and Password

NERC	NERC Provider Portal
Home Reset password Create new profile	Please log in.
	Forget your username or password? Click here. To start the registration process, fill out a basic profile. Note: If you already have a SOCCED account, please do not complete a new profile. Please contact NERC at SOCCEDSupport@nerc.net for assistance with your login information. If you're having technical problems, please email: soccedsupport@nerc.net
	Rowered by Brightlink

2. Select Courses

	TRIC	1.			
A Home S My Purchases	Notifications	close all			
PROVIDER	No notifications to display				
Courses					
View Transcripts					
CE MANAGEMENT CEH Review CEH Upload (CSV)					
	A Powered by BrightLink				

#### 3. Select ILA Application

A Home	ILA Applications				6	+ ILA Application
\$ My Purchases						
PROVIDER Upgrade/Renew	Show 10 💌 entries	≜ csv			arch:	
ILA APPLICATIONS				Filter by s	tatus: All Statuses	~
C# Courses					Operating topics/	
OPERATOR USERS	Course ID: 11	Review/Application Status: 17	Start Date	17 End Date 17	Standards/	Action
View Transcripts	the second second		-		1.00	Q View Details
CEH Review CEH Upload (CSV)			-		-	Q View Details
	the second second	-	-		-	Q View Details
	and the second second					Q View Details
						Q View Details
	Sector Sector	-	-			Q View Details
			100		1000	Q View Details
	1000		1.00		100	Q View Details
	State State		1.00			Q View Details
						Q View Details
	Showing 1 to 10 of 249 entrie	s		Previous 1 2	3 4 5	25 Next

## **Required Fields**

NERC			1 -
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION			A •
A Home	Application Documents		
\$ My Purchases			🔏 Upload Responses (CSV)
PROVIDER			-a upload Responses (CSV)
B Upgrade/Renew Contact Per	rson For This Cou	rse	
ILA APPLICATIONS	0		
Ger Courses	Primary Contact	Select one provider user *	
OPERATOR USERS Course Info	rmation		
CE MANAGEMENT CEH Review Begin the course ID	with the Provider ID.		
CEH Upload (CSV)	Course ID	Do not use any special characters	
	Course Title	Do not use any special characters	
		bo not use any special characters	
The course start dat	e must be after your provider	r approval date.	
Date for the first	delivery of the cours	Enter date as YYYY-DD-MM	
	Course Description		
CE Categori	ies & Hours		
0	Operating Topics Hours		
	NERC Standards	0	
	HERC Standards	0	
	Simulation	0	
This Course	Includes		
System Operator Cr as specified in	orms to the criteria for redential Maintenance n the System Operator tion Program Manual.	Yes No	

#### **Contact Person for This Course**

- 1. Primary Contact
  - a. This is the individual who will answer questions a reviewer may have regarding the learning activity.

**Chapter 4: Individual Learning Activities (ILAs)** 

ILA Application	Application Documen	its	
Contact Pers	son For This Co	ourse	
Contact Pers	son For This Co	ourse	
Contact Pers	SON FOR This Co Primary Contact •	Select one provider user	

#### **Course Information**

#### 2. Course Information

- a. Course ID
  - i. Course ID must begin with provider ID (i.e. ABC\_001).
  - ii. During the provider application process, an entity is assigned a provider ID by NERC.
  - iii. Must be unique to a single learning activity.
  - iv. Cannot be edited once course has been entered into a transcript.

#### b. Course Title

- i. Course Title and Course ID may be the same.
- ii. Must be unique to a single learning activity.

#### c. Date for the first delivery of the course

- i. Date format must match: YYYY-DD-MM
- ii. Refer to the CM Manual for information regarding submission time frame requirements.

#### d. Course Description

- i. This field is not required; but, considered to be best practice to include a terminal objective or goal for the learning activity.
- ii. Refer to the CM Manual for information regarding specialized learning activities.

**Chapter 4: Individual Learning Activities (ILAs)** 

2 Course Information	
Begin the course ID with the Provider ID.	
Course ID •	Do not use any special characters
b Course Title *	Do not use any special characters
The course start date must be after your provide	er approval date.
C Date for the first delivery of the course *	Enter date as YYYY-DD-MM
d Course Description	

#### **Continuing Education Categories and Hours**

- **3.** Continuing Education Categories and Hours indicate what categories are included in each Learning Activity Content Segment.
  - a. Operating Topics
    - i. Should include total of all Learning Activity Content Segments.
    - ii. Minimum number of CE hours for a course must be at least 1.0.
    - iii. Fractional increment of an hour is rounded down to the next whole or half hour with a one hour minimum. Should relate to "Appendix A Recognized Operator Training Topics" found in the System Operator Certification Program Manual<sup>12</sup>.
  - b. NERC Standards hours cannot exceed Operating Topics Hours.
    - i. Time devoted to NERC Standards should be included in Operating Topics Hours; these hours are subsets of the total.
  - c. Simulation hours cannot exceed Operating Topics Hours.
    - i. Time devoted to Simulation should be included in Operating Topics Hours; these hours are subsets of the total.
  - d. Refer to the CM Manual for information regarding CE hours.

3	CE Categories & Hours	
	a Operating Topics Hours	0
	c Simulation	0

<sup>&</sup>lt;sup>12</sup><u>https://www.nerc.com/pa/Train/SysOpCert/System%20Operator%20Certification%20DL/SOC\_Program\_Manual\_V4.1.pdf</u>

#### This Course Includes

- 4. This Course Includes:
  - a. This activity conforms to the criteria for System Operator Credential Maintenance as specified in the System Operator Certification Program Manual.
    - i. Select Yes or No.
  - b. This course is an Emergency Operations related training topic.
    - ii. Select Yes or No.
    - iii. Refer to the System Operator Certification Manual Chapter 4 for the definition of Emergency Operations Training Topics.
  - c. Pilot data
    - iv. Select No. Pilot data is no longer required.
    - v. Any attached documents will not be used when in the consideration of ILA approval.
    - vi. Refer to the CM Manual for information regarding determination of total CE hours for eligible learning activities.

This Course Includes			
This activity conforms to the criteria for System Operator Credential Maintenance	Yes	No	
as specified in the System Operator Certification Program Manual.			
This course is an Emergency Operations related training topic.	Yes	No	
Pilot data is attached, if applicable.	Yes	No	N/A

#### Learning Assessment/Course Evaluation and Attendance Verification

- 5. How will the learning be assessed? Learning Assessment measures the extent to which training achieved its objectives and improved learner's knowledge or skills. Select all that apply.
  - a. Written/Online Exam
  - b. Performance Demonstration
  - c. Other
  - d. If other, please describe.
  - e. If learning assessments are not Written/Online Exam or Performance Demonstration, select Other.
  - f. Include enough detail to clearly explain assessment process.
  - g. Refer to the CM Manual for information regarding requirements for learning assessment.

	Learning Assessment/Cou	Irse Evaluation and Attendance Verification
5	How will the learning be assessed?	
		Written/Online Exam
		Performance Demonstration
		Other
	If other, please describe.	

#### Learning Objectives

- 6. Learning Objectives must have clear and concise written statements of intended learning:
  - 2. These objectives represent what trainees are expected to achieve based on learning activities.
    - 2. Include all intended objectives in this field.
    - 2. Individual Objective(s) will be assigned to each Learning Activity Content Segment(s) in the next section.
    - 2. For clarification, assign a number to each objective.
    - 2. Refer to Guide to Writing Objectives on the One Stop Shop<sup>13</sup> of the System Operator Certification and Credential Maintenance Program<sup>14</sup> website regarding additional information.

6	Learning Objectives	
	Learning Objective *	

#### **Segment Categories**

7. Segment Categories indicate what categories are included in each segment.

<sup>&</sup>lt;sup>13</sup> One-Stop Shop (System Operators Certification and Credential Maintenance Program) (nerc.com)

<sup>&</sup>lt;sup>14</sup> System Operator Certification & Credential Maintenance Program (nerc.com)

- a. **Operating Topics** should include all segments related to the System Operator Certification Manual "Appendix A – Recognized Operator Training Topics".<sup>15</sup>
- b. **NERC Standards** should include segments addressing these Standards.
- c. Simulations indicates segment is based on simulation.
- d. A segment may cover multiple categories.
- e. Select all categories that apply.



#### Learning Activity Content Segment

#### 8. Learning Activity Content Segment

- a. Partial Credit Available? Select applicable Yes or No.
  - i. Refer to the CM Manual regarding Partial Credit.
- b. Learning Objective(s) related to each segment
  - i. List each objective(s) relative to Segment Delivery Description.
  - ii. This is where numbering of objectives is beneficial.

#### c. Segment Duration in minutes

- i. Enter total allocated times for each segment of learning activity.
- ii. Do not enter decimals or percentages.
- iii. Total of all Segment Duration should not be greater than Operating Topic Hours (3.a).
- iv. A ten minute break is understood to be part of each CEH.

#### d. Segment Delivery Description

- i. Include enough detail to determine if learning objectives can be met.
- ii. Include method of delivery and description of all materials used to deliver the course.
- iii. Any ILA segment(s) that will be used to award NERC standards hours must comply with the following:
  - 1. Reference NERC standards that are "approved" or are already "in effect"
  - 2. Clearly convey how NERC standards will be incorporated into the course
- iv. Provide specific information on how content of this course relates to the System Operator Certification Manual "Appendix A Recognized Operator Training Topics"<sup>16</sup>.

<sup>&</sup>lt;sup>15</sup><u>https://www.nerc.com/pa/Train/SysOpCert/System%20Operator%20Certification%20DL/SOC\_Program\_Manual\_</u> V4.1.pdf

#### Chapter 4: Individual Learning Activities (ILAs)

8 Learning Activity Content Se	egment
a Partial Credit Available?	Yes No
b Learning Objective(s) related to each segment	
C Segment Duration in minutes	
materials used in course delivery. The description	th segment of the learning activity. Include instructional method(s) and describe all n MUST contain sufficient detail to determine if the learning objectives can be met. Provide course relates to the System Operator Certification Program Manual, Appendix A.

#### Add More Learning Activity Content Segments

- **9.** If additional segments need to be added:
  - a. Click + Add in the upper right corner.
  - b. Continue to include required information as described above.
    - i. Description of Segment Delivery See 8.d
    - ii. Segment Categories See 7.a, 7.b, 7.c
    - iii. Partial Credit Available? See 8.a
    - iv. Learning Objective(s) related to each segment See 8.b
    - v. Segment Duration in minutes See 8.c
  - c. Continue to add as many Learning Activity Content Segments as needed.
  - d. Before submitting the course, ensure all Segment Duration minutes equal total Operating Topic Hours.

Add More Learning Activ	ity Content Segments
	:
	n each segment of the learning activity. Include instructional method(s) and describe all ription MUST contain sufficient detail to determine if the learning objectives can be met.
Description of Segment Delivery	•
Please select all that apply.	
	Operating Topics
	NERC Standards
	Simulations
Partial Credit Available?	Yes No
Learning Objective(s) related to each segment	
Segment Duration in minutes	
segment	

#### **Course Topics**

- **10.** Course Topics relate specifically to the System Operator Certification Manual "Appendix A Recognized Operator Training Topics".<sup>17</sup>
  - a. Select all that apply.
  - b. Courses that provide CE hours for NERC certification credential maintenance shall be based on topics listed.

<sup>&</sup>lt;sup>17</sup><u>https://www.nerc.com/pa/Train/SysOpCert/System%20Operator%20Certification%20DL/SOC\_Program\_Manual\_V4.1.pdf</u>

Course Topics	
Basic AC/DC Electricity	
	Capacitance
	Inductance
	Impedance
	Real and reactive power
	Electrical Circuits
	Magnetism
Basic Power System Mathematic Concepts	
	Basic trigonometry
	Ratios
	Per unit values
	Pythagorean Theorem

Course Topics	
Basic AC/DC Electricity	
	Capacitance
	Inductance
	Impedance
	Real and reactive power
	Electrical Circuits
	Magnetism
Basic Power System Mathematic Concepts	;
	Basic trigonometry
	Ratios
	Per unit values
	Pythagorean Theorem
	Ohm's Law
	Kirchhoff's Laws

٦

Characteristics of the Bulk Electrical System	
П Т	Fransmission lines
П Т	Fransformers
s	Substations
P	Power plants
P	Protection
	ntroduction to power system operations and nterconnected operations
System Protection Principles	
Т 🗆	Transmission lines
т 🗆	Transformers
В	Busses
G	Generators
R	Relays and protection schemes
P	Power system faults
	Synchronizing equipment under-frequency load
u	Inder-voltage load shedding
c	Communication systems utilized

Interconnected Power System Operators	
	Voltage control
	Frequency control
	Power system stability
	Facility outage both planned and unplanned
	Energy accounting
	Inadvertent energy
	Time error control
	Balancing of load and resources
Emergency Operations	
	Loss of generation resource(s)
	Loss of transmission element(s)
	Operating reserves
	Contingency reserves
	Line loading relief
	Load shedding
	Voltage and reactive flows during emergencies
	Loss of EMS
	Loss of primary control center



Tools	
	Supervisory Control and Data Acquisition (SCADA)
	Automatic Generation Control (AGC) application
	Power flow application
	State estimator application
	Contingency analysis application
	P-V Curves
	Load forecasting application
	Energy accounting application
	Voice and data communications systems
	Demand-side management programs
Operator Awareness	
	Identifying loss of facilities
	Recognizing loss of communication facility
	Recognizing telemetry problems
	Recognizing and identifying contingency problems
	Proper communications (three-part)
	<ul> <li>Communication with appropriate entities including the Reliability Coordinator</li> </ul>
	Cyber and physical security and threats

- c. Save the ILA Form.
- d. Once the ILA Form is saved, the following screen should appear.



#### **ILA Submission Process**

- **11.** Application Documents is a legacy feature that was previously used to capture application elements that are no longer required to be submitted. No additional documents are required to be submitted at this step.
- **12.** When finished, choose one of the following 3 options:
  - a. Apply for Another Course. The website will return to a blank ILA Form.
  - b. Save & Close. The website will close browser but may be returned to later.
  - c. Finish & Pay.


#### Chapter 4: Individual Learning Activities (ILAs)

Chapter 4: Individual Learning Activities (ILAs)

NERC	NERC Providers Portal
♠ Home \$ My Purchases	ILA Application Documents
PROVIDER	Select Files
C Upgrade/Renew	
PROVIDER USERS	
🛃 Invite Users	
🚰 Manage Users	11 Drag & drop files here
ILA APPLICATIONS	
Courses	
OPERATOR USERS	
View Transcripts	11
CE MANAGEMENT	Select files
⊖ CEH Upload (CSV)	Apply for Another Course Save & Close Finish & Pay
	Powered by BrightLink

#### Note:

Level 2 providers must submit ILAs 45-days *prior* to the first date of delivery. Level 3 providers can submit ILAs up to 30-days *after* the first date of delivery.

## **ILA Renewals**

Providers have the ability to renew ILAs 90 days prior to the expiration date. In order to renew an existing ILA, provider users should go to the **Courses** menu. Browse through the **Action** column and determine if there are ILAs that are up for renewal. The ILA will have a blue button giving the option to **Renew Course**. *Select* the **Renew Course** button and follow the steps as directed.

#### Chapter 4: Individual Learning Activities (ILAs)

ft Home	ILA Applications					+ ILA Application
\$ My Purchases						
PROVIDER	Show 10 v entries	🕹 CSV		:	Search:	
C Upgrade/Renew				Filter by	status: All Status	25
PROVIDER USERS						
🛃 Invite Users					Operating topics/	
📽 Manage Users	Course ID:	Review/Application Status:	Start Date	End Date ↓	Standards/ Simulations	Action
ILA APPLICATIONS		Course: expired	2020-08-31	2021-08-31	3/0/2.5	
Courses						Q View Details
OPERATOR USERS						<b>Q</b> Renew Course
View Transcripts		Course: expired	2020-07-15	2021-07-15	3.5 / 2.5 / 1	Q View Details
CE MANAGEMENT						Q Renew Course
						C Renew Course
⊘ CEH Upload (CSV)		Course: expired	2020-07-13	2021-07-13	2.5 / 2.5 / 0	Q View Details
						🕰 Renew Course
		Course: expired	2020-06-16	2021-06-16	3/2/0	Q View Details
						• Renew Course

## Withdrawing an ILA

Providers have the option to withdraw a course. Courses may only be withdrawn, with refund, up until the point they are assigned to a CERP reviewer for evaluation. To withdraw an ILA:

- 1. Go to the Courses menu
- 2. Type in the ILA's Course ID in the Search
- 3. Select View Details at the far right of the course
- 4. Select Withdraw Application

ILA Applicat	ions					+ ILA Application
Show 10	✓ entries	🛓 CSV		Search:		
				Filter by status	: All Statuses	~
Course ID:	ĴŢ	Review/Application Status:	Start Date	topi Star	erating ics/ ndards/ uulations 11	Action
	-	Pending review assignment	2022-01-17	2023-01-17 1.5	/1/0	Q View Details
Showing 1 to 1 of	1 entries (filtere	d from 982 total entrie:	5)		Prev	ious 1 Next

Actions	
	C Withdraw Application
	View Application

## **View Status of All Courses**

Provider users looking for a list of all submitted courses and the current course status should go to the "Courses" menu in the provider user account. Provider users can filter by the course status (Active, Expired, Pending Assignment, Denied, Waiting for Reviewer, Waiting for Staff or Withdrawn). Provider users can also sort by the Review/Application Status, Start Date, End Date, or the Operating topics/Standards/Simulations columns (ascending or descending) by clicking on the column header.

ft Home S My Purchases	ILA Applications					+ ILA Application
PROVIDER	Show 10 v entries	📩 CSV			Search:	
C Upgrade/Renew				Filter b	y status: All Statu	ises .
+ Invite Users				_	Operating	
Manage Users	Course ID:	Review/Application Status:	1 Start Date 1	End Date	topics/ Standards/ Simulations	Action
LA APPLICATIONS		Course: expired	2020-08-31	2021-08-31	3/0/2.5	Q View Details
OPERATOR USERS						<b>Q</b> Renew Course
View Transcripts		Course: expired	2020-07-15	2021-07-15	3.5 / 2.5 / 1	Q View Details
E MANAGEMENT						Q Renew Course
CEH Review						
OCEH Upload (CSV)		Course: expired	2020-07-13	2021-07-13	2.5 / 2.5 / 0	Q View Details
						(Q Renew Course
		Course: expired	2020-06-16	2021-06-16	3/2/0	Q View Details
						Q Renew Course
		Course: expired	2020-05-05	2021-05-05	2.5/0/0	Q View Details
		Course: expired	2020-02-11	2021-02-11	2.5/2.5/0	Q View Details
		Course: expired	2020-02-10	2021-02-10	3/0/3	Q View Details
		Course: expired	2020-02-10	2021-02-10	2.5/0/1	Q View Details
		Course: expired	2020-02-09	2021-02-09	3/0/0	Q View Details

# Chapter 5: Awarding, Editing and Deleting CEHs

Level 2 and Level 3 providers have the ability to award and delete CEHs for any course they have delivered.

Provider users can award CEHs manually via SOCCED or via a CSV upload.

## To Award CEHs Manually (one course/one operator per entry):

- 1. Provider users should log into the provider user SOCCED account.
- 2. Click on CEH Review
- 3. Scroll to the bottom and select Add New CEH



#### 4. Add the information requested and select Create

## Create new entry

Course ID*:	
Enrollment Date*:	
Certification Number*:	
Operating Topics:	
Standards:	
Simulations:	

Cancel Create

 $\overline{\ }$ 

## Awarding CEHs to Multiple Operators

To upload CEHs for multiple operators at one time, provider users should use a *CEH Upload CSV Template*<sup>18</sup> and save it as a **CSV** (Comma delimited) file.

	This PC > Windows (C:) > Users >		ٽ ~	Search Desktop	)
Organize 🔻 🛛 New fol	der			1	== - ?
💻 This PC	^ Name		Date modified	Туре	Size
3D Objects			7/13/2021 2:56 PM	Microsoft Excel C	1 KE
Desktop		c	7/13/2021 7:34 AM	Microsoft Excel C	2 KE
Documents			7/7/2021 2:36 PM	Microsoft Excel C	5 KE
Downloads			6/11/2021 3:08 PM	Microsoft Excel C	4 KE
Music			6/11/2021 3:07 PM	Microsoft Excel C	1 KE
•			5/24/2021 6:54 AM	Microsoft Excel C	3 KE
F Pictures			5/24/2021 6:54 AM	Microsoft Excel C	3 KE
📑 Videos			5/24/2021 5:59 AM	Microsoft Excel C	1 KE
			5/12/2021 10:25 AM	Microsoft Excel C	1 KE
			5/12/2021 9:57 AM	Microsoft Excel C	1 KE 2 KE
	· · ·		4/5/2021 12:53 PM	Shortcut	2 KE
File name: CEH	HAward_CSV Template				
Save as type: CSV	(Comma delimited)				`
Authors: Na	sneema santos lags: Add a tag	Titl	e: Add a title		
Hide Folders			Tools 💌	Save	Cancel

	A	В	С	D	E	F
1	course_id	enrollment_date	certification_number	operating_topics_ceh	standards	simulations

- course\_id = the course's identification ID in SOCCED
- enrollment\_date = date the operator took the course
- certification\_number = operator's certificate number
- operating\_topics\_ceh = number of operating topic hours
- standards = number of standard hours
- simulations = number of simulation hours

Add the information to the csv file per the requirements listed above. Multiple operators can be listed within the same spreadsheet (each in its own individual row).

**TIP:** Use one csv file per course. NERC does not recommend uploading multiple courses with multiple operators within one csv file.

When the csv file is complete and ready for upload save it, go through the following steps to upload the csv file:

1. *Log* in to the provider user account

<sup>&</sup>lt;sup>18</sup> https://www.nerc.com/pa/Train/SysOpCert/System Operator Certification DL/CEH Upload CSV Template.csv

2. Click on the CEH Upload (CSV) option

🕈 Home	
\$ My Purchases	Notificat
PROVIDER	
🔁 Upgrade/Renew	Labor
PROVIDER USERS	The NER
🛃 Invite Users	We will
🖀 Manage Users	
ILA APPLICATIONS	
Courses	
OPERATOR USERS	
View Transcripts	
CE MANAGEMENT	
⊘ CEH Review	

3. Choose the file and select Upload CE

Upload CE for Candidates					
Upload Enrollment CSV	Choose File No file chosen				
		Upload CE			

That completes the upload of the CEHs awarded to multiple operators.

If there is an error with one record, the .csv report will not upload and SOCCED will generate an error message. The Message will outline which line has the error. The header row of the .csv file is not counted as a row.

NERC		
✿ Home \$ My Purchases	Upload Failed. Please correct the error below and try again.	×
PROVIDER	Upload CE for Candidates	
PROVIDER USERS	Upload Enrollment CSV Choose File No file chosen	
ILA APPLICATIONS	Row 2: Certification Number is required to create CEH. Row 3: Certification Number is required to create CEH.	
OPERATOR USERS		Upload CE
CE MANAGEMENT CEH Review CEH Upload (CSV)		

## **Editing CEHs**

Level 2 and Level 3 providers are able to view and edit all of the CEHs they have awarded in the CEH Review screen. Providers may search by the Operator's certification number to find the entry in question, or they may search by the course ID.

NERC Providers Portal						
<ul> <li>✦ Home</li> <li>\$ My Purchases</li> <li>PROVIDER</li> <li>௴ Upgrade/Renew</li> <li>PROVIDER USERS</li> <li>♣ Invite Users</li> <li>聲 Manage Users</li> <li>ILA APPLICATIONS</li> </ul>	Notifications ILA Submission Timeframes Reminder: Level 2 Providers: ILAs must be submitted at a minimum of 45 days prior to the first date of delivery. Level 3 Providers: ILAs must be submitted at a maximum of 30 days after the first date of delivery. Please refer to Chapter 5 of the Credential Maintenance Program Administrative Manual for further details					
Courses  PERATOR USERS  View Transcripts  CE MANAGEMENT  CEH Review  CEH Upload (CSV)						

Enter the Certification Number into the Search box to generate a list of all of an operator's CEHs.

CEH Review				
Enrolled After	2022-08-21	Show 25 v er	ntries	Search:

Entering a Course ID into the Search box will generate a list of all of the operators that have been awarded CEHs for that particular course.

To edit a line item:

- *select* the **box** to the left of the Course ID;
- scroll to the bottom of the screen and select Edit CEHs

Course ID	ĴĴ	Enrollment Date	↓ <b>.</b> .	Certification Number(s)	ţţ	Category Hours lang OT / ST / SI	.↓†
		2021-11-17				12/6/12	

Showing 1 to 25 of 2,361 entries 1 row selected						
Delete Selected	Add new CEH	Edit Selected				

The next screen will be an **Edit Enrollment** screen that allows the provider user to make edits to the Course ID, Enrollment Date, Certification Number, Operating Topics, Standards, and/or Simulations. Once the edit are complete, *click* the **Edit** button to save the changes.

Edit enrollment		×
Course ID*:		]
Enrollment Date*:	2021-11-17	
Certification Number(s)*:		
Operating Topics:	12	
Standards:	6	
Simulations:	12	
	Cancel	it

## **Deleting CEHs for Single or Multiple Operators**

Level 2 and Level 3 providers are able to view all of the CEHs they have been awarded in the CEH Review screen. Providers may search by the Operator's certification number (to delete CEHs for a single operator/one course) or look for the Course ID (if looking to delete CEHs for multiple operators/one course).

NERC	NERC Providers Portal
<ul> <li>✿ Home</li> <li>\$ My Purchases</li> <li>PROVIDER</li> <li>C Upgrade/Renew</li> </ul>	Notifications
PROVIDER USERS	Reminder: Level 2 Providers: ILAs must be submitted at a <u>minimum of 45 days prior</u> to the first date of delivery. Level 3 Providers: ILAs must be submitted at a <u>maximum of 30 days</u> after the first date of delivery. Please refer to Chapter 5 of the Credential Maintenance Program Administrative Manual for further details
OPERATOR USERS  View Transcripts  CE MANAGEMENT  CE Review  CEH Review  CEH Upload (CSV)	

Provider users should enter the Certification Number or the Course ID into the Search box, which will generate a list of either all of a single operator's CEHs (if looking for a single entry to delete) or all of the operators that have been awarded CEHs for a particular course.

Once the line item that must be deleted is found, the provider user should:

- select the box to the left of the Course ID,
- *scroll* to the bottom of the screen and *click* **Delete Selected**

Course ID	11	Enrollment Date	↓ <sup>II</sup> •	Certification Number(s)	ţţ	Category Hours lang OT / ST / SI	↓î
		2021-11-17				12/6/12	



This will remove the entry from the operator(s) transcript(s).

# **Chapter 6: Transcript Review**

Provider users can view operators' certificate renewal progress and operators' transcripts, if the Operator has authorized the provider to view.

## **View Certificate Renewal Progress and Transcripts**

Provider users can view an operator's certificate renewal progress. Therefore, they can see at-a-glance how many CEHs an operator has earned or is missing to meet renewal requirements.

To view the Certificate Renewal Progress, follow the steps below:

- 1. Log in to the provider user SOCCED account
- 2. Select View Transcript



3. Search for the operator by name

Oper	ator l	Jser	5					
Show	25	~	entries	🛓 CSV	***	Search:	Jane Doe	

4. Click on Transcript at the end of the operator's name. This will show the Renewal Progress

Operator Users	
Show 25 v entries	Search:
First Certification Certification Name 🕼 Last Name 👫 Number 👫 Status	Certification on Expiration Operating IL Date IT Topic Hours IT Details
active	2022-03-06 167.0/140.0
Renewal Progress	
Operating Topics (including 0 rollover hours) 167	
Standards 50	
Simulations 47	
View Full Transcript	

- 5. *Click* on **View Full Transcript**, to view the operator's complete transcript showing how many operating topics, standards, and simulation hours were earned per course and the date they were earned.
- 6. *Click* on **Download Transcript** to save the transcript file in an Excel format.

ewing Transcript:		0	Download Transcript
	09/09/2018	to	09/09/2021

NOTE: Bulk download of all operators is not available at this time.
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# **Chapter 7: Audits**

Audits are conducted on a routine basis to ensure that all providers adhere to the NERC Credential Maintenance Program's criteria. Audits are independent from the renewal process and can occur anytime. A routine audit is an examination of an approved Individual Learning Activity (ILA) to ensure the course outlined in the CM Manual *see* **Chapter 8: Credential Maintenance Program Audits<sup>19</sup>**.

Providers will receive an email from the NERC Administrator which identifies the ILA that is being audited. Also included is Continuing Education Providers Routine Audit Checklist which outlines the documentation needed for the audit.

Providers will *upload* necessary documentation directly in to the **documents section** of the ILA. All documents will populate within the ILA.

If a provider encounters any difficulties uploading documents, submit a ticket to the SOCCED Help Desk, a NERC SOCCED Administrator will assist.

<sup>&</sup>lt;sup>19</sup> <u>https://www.nerc.com/pa/Train/SysOpCert/System%20Operator%20Certification%20DL/CM\_Program\_Manual\_v1.2.pdf</u>

# **Chapter 8: View Order History**

All provider users can see Order History (including applications, renewals, and ILA submittals). To view all orders, providers should:

- 1. Log in to the provider user SOCCED account
- 2. Select My Purchases



- 3. Provider users will be able to see all of the purchases made within the provider user's account. It will include an order number, date of purchase, item purchased, and the total.
- 4. *Click* on the **Order Number** to *view* the **details** of the order (i.e. ILA course ID).

Order Hist	tory			
Order #	Status	Date	Items	Total
31213	New	August 24th 2021 07:57	<ol> <li>ILA Application</li> <li>ILA Application</li> <li>ILA Application</li> <li>ILA Application</li> </ol>	\$720.00
30428	New	June 17th 2021 13:57	1 ILA Application 1 ILA Application 1 ILA Application	\$900.00

#### NERC | Provider Reference and User Guide | December 2024

	Table A.1: Provider Reference Guide Version History						
Revision No.	Date	Chapter	Description				
1	March 2022	All	The Provider Reference Guide was approved by the Personnel Certification Program Manager				
2	May 2024	All	CMWG and IOTF edited the document with updated snapshots				
3	December 2024	4	The Provider Reference Guide and Provider User ILA Guide was consolidated into one document.				