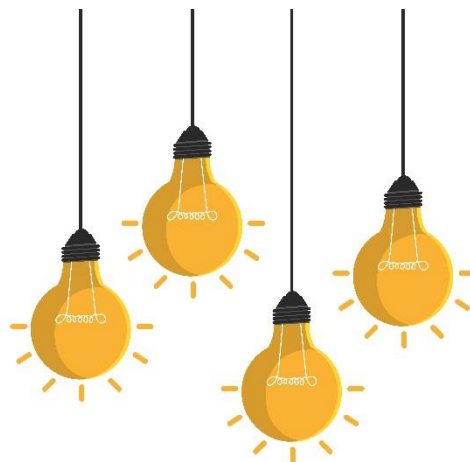# Electric Utility Fundamentals + Insights (virtual)

Course Overview

This online program provides utility and service employees with a deep understanding of how the electric utility industry works. Participants will gain a better awareness of their roles within the organizations. Participants will also gain a broader understanding of the electric industry's critical issues and the interaction between utilities and the stakeholders. This course traverses the business of electricity, from the scientific beginnings to today's generation choices, the modern electric grid, customer engagement, and how utilities make money. The program also covers an overview of federal, state/provincial, and municipal regulations and their impacts on the business model.

Who Should Attend?

This program is designed for personnel who wants to broaden their understanding of the operation and business aspects of the electric industry. Participants will benefit from the program regardless of their level of experience or field of work

Registration Info

Provider: Western Energy Institute (WEI)

Date: Tuesday, March 30 – Wednesday, March 31, 2020

Time: 8:30 a.m.-2:30 p.m. (Day One), 8:00 a.m. - 12:00 p.m. (Day Two)

Length: 2 day

Capacity: min. 15 - max. 30 attendees

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Note: Participants will receive printed material through mail. The webinar link will be provided a week prior to the training.

Estimated Enrollment Fee

- **SCPPA Member Rate: $160 - $320** *(the actual cost will be based on the final number of attendees.)*

Agenda

Tuesday, March 30, 2021

8:30 AM - 9:00 AM | GoToWebinar Open for Participants

The GoToWebinar will open at 8:30 AM in the morning. Please join early as we will start the class promptly at 9:00 AM.

9:00 AM - 9:30 AM | Participant Introduction & Roundtable

Students share their own backgrounds within and outside the energy industry and what they hope to learn throughout the day. Please be prepared to share at least three questions you hope to answer during the course.

9:30 AM - 9:45 AM | Break

Several planned breaks are scheduled throughout the day for participants to check emails, answer calls, and check in with daily work requirements.

9:45 AM - 10:45 AM | Module One: Fundamentals of Electricity

- Key influencers in the history of electricity.
- Utility definitions and electricity terms
- basics of how electricity is generated
- Electricity generation and "the Utility loop"
- Keys to power quality

10:45 AM - 11:00 AM | Break

Several planned breaks are scheduled throughout the day for participants to check emails, answer calls, and check in with daily work requirements.

11:00 AM - 12:00 PM | Module Two: Western North American Electricity Markets

- Service territories
- Federal regulators and departments
- NERC regions and the WECC
- Energy balancing

12:00 PM - 1:00 PM | Break for Lunch

1:00 PM - 2:30 PM | Module Three: How Utilities Makes Money

- Types of utilities
- Common organizational structures
- Balancing interests of stakeholders
- Regulation and rate making fundamentals

Wednesday, March 31, 2021

8:00 AM - 8:15 AM | Day One Review

8:15 AM - 9:15 AM | Module Four: Generation Choices

- Number ONE rule of the electric grid
- Fossil fuel options
- Traditional low-carbon generation
- Today's renewables
- Energy storage

9:15 AM - 9:30 AM | Break

9:30 AM - 10:30 AM | Module Five: Customers + Emerging Opportunities

- Types and expectations of electricity customers
- Customers care regulations
- Electric vehicles
- Solar Energy Resources
- The Trusted Energy Advisor

10:30 AM - 10:45 AM | Break

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10:45 AM - 12:00 PM | Module Six: Distributed Energy Resources + Module Seven: Integrated Resources Planning

- Energy storage
- Energy efficiency
- Electric vehicles
- Distributed generation
- Demand response

12:00 PM - 12:15 PM | Q&A and Wrap-Up

We circle back to the original expectations of students to ensure that expectations were met.

Questions?

(626) 793-9364 ext. 212
training@scppa.org

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