

INTRODUCTION TO ELECTRIC UTILITY SYSTEMS FOR NON-ENGINEERS

March 29-30, 2021
Online | Central Time

RELATED EVENT:

**ELECTRIC UTILITY SYSTEMS FOR
NON-ENGINEERS 201**
March 31 – April 1, 2021 | Online



“Larry did an excellent job presenting this information. The order was logical and helped build knowledge. I now have context for the often abstract discussion on transmission, distribution, and substations at work.”

San Francisco Public Utility Commission



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This course has been developed for non-engineers working for electric utilities or involved in business relationships with electric utilities. The course provides a non-technical introduction to the fundamental concepts that form the basis for the design and operation of the integrated electric utility system. The fundamental concepts underlying legacy electric power systems and how the attributes of these systems affect their operation in today's evolving market structure are addressed without reference to rigorous engineering techniques or mathematical analysis.



EUCI is authorized by IACET to offer 1.3 CEUs for the course



EUCI is authorized by CPE to offer 16 credits for the course

LEARNING OUTCOMES

Individuals who attend this course develop a “gut feel” for why electric utility systems are built and operated the way they are. After completing the course, they should feel comfortable speaking with engineers from their company or the utility that they are dealing with, and they should know enough to ask follow-up questions to clarify their understanding of the issues that are being discussed. Topics to be covered include:

- The components of all functional areas of electric utility systems
- The drivers of system design and operation
- Key power systems definitions and terminology
- The effects of industry and corporate changes on power systems design and operations
- Challenges created by the evolving regulatory/market environment

INSTRUCTOR

Lawrence (Larry) J. Vogt, *Vogtage Engineering Corporation*

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“EUCI identifies engaging topics and provides a timely forum for exchange of ideas and information with experts in the energy industry.”

Project manager, Black & Veatch



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In this one-and-a-half-day course, attendees will gain a deeper sense of all the aspects within an electric utility system. Diving into the details on the types of utilities, important organizations, renewables, balancing, economics, resiliency, and more, this class will provide you with more advanced concepts in order to further your holistic knowledge of the industry and to participate in educated conversations with your team.

Although this course is paired directly after the Introduction to Electric Utility Systems for Non-Engineers program, it is not a pre-requisite for attending this event.



EUCI is authorized by IACET to offer 1.0 CEUs for the course



EUCI is authorized by CPE to offer 12 credits for the course

LEARNING OUTCOMES

- Review electrical concepts, including voltage, current, resistance, power, and energy
- Walk through the details regarding distribution when it comes to design drawings, unbalanced current, and the complexities and science of underground cables
- Dive into advanced concepts of transformers (i.e. wiring, instrument transformers, turn ration, tap changers, etc.)
- Determine what power factor entails, why it's bad, and how to improve it
- Determine how energy markets, demand curves, baseload, forecasting, and more affect balancing
- Assess renewables, energy storage, grid resiliency, and grid organization
- Master utility economics concepts, which includes rate cases processes, O&M expenses, shareholders, capital and more

INSTRUCTOR

Brent Olsen, *President, 3 Phase Consulting*

To Register Click Here, or

Mail Directly To:

PMA Conference Management
405 Highview Rd
Englewood NJ 07631
201 871 0474
Fax 253 663 7224
register@pmaconference.com

ONLINE DELIVERY & PARTICIPATION DETAILS

EUCI will use Microsoft Teams to facilitate participation in the upcoming event. Attendees do not need to have an existing Teams account to participate in the broadcast. The course will play in attendee's browser. When attendees sign on, their microphones are typically muted. Attendees should keep their mic muted until such time as it's needed to ask a question. During the event, participants will have the option of using a microphone to speak with the room and ask questions, or type in any questions via the chat window and our online administrator will relay your question to the instructor.

- Each attendee will receive an event invitation by e-mail, which will include one link to sign on for each half-day of the event (i.e., three links for a 1 ½ day event). The appropriate link must be used to join each half-day event segment at the appropriate time.
- The remote meeting connection will open approximately 30 minutes before the start of the course. We encourage attendees to connect as early as possible in case of unforeseen problems.

BUNDLE PRICE: INTRODUCTION TO ELECTRIC UTILITY SYSTEMS FOR NON-ENGINEERS AND ELECTRIC UTILITY SYSTEMS FOR NON-ENGINEERS 201 ONLINE COURSES:

MARCH 29- APRIL 1, 2021: US \$2,395 (Single Connection)

INTRODUCTION TO ELECTRIC UTILITY SYSTEMS FOR NON-ENGINEERS ONLINE COURSE ONLY:

MARCH 29-30, 2021: US \$1,295 (Single Connection)

ELECTRIC UTILITY SYSTEMS FOR NON-ENGINEERS 201 ONLINE COURSE ONLY:

MARCH 31 – APRIL 1, 2021: US \$1,295 (Single Connection)

Recording: Each event is recorded, and will be available for three business days. For registrants only.

How did you hear about this event? (direct e-mail, colleague, speaker(s), etc.)

Print Name

Job Title

Company

Address

City

State/Province

Zip/Postal Code

Country

Phone

Email

CREDIT CARD INFORMATION

Name on Card

Billing Address

Account Number

Billing City

Billing State

Exp. Date

Security Code (last 3 digits on the back of Visa and MC or 4 digits on front of AmEx)

Billing Zip Code/Postal Code

OR Enclosed is a check for \$ _____ to cover _____ registrations.

Substitutions & Cancellations

Your registration may be transferred to a member of your organization up to 24 hours in advance of the event. Cancellations must be received on or before February 26, 2021 in order to be refunded and will be subject to a US \$195.00 processing fee per registrant. No refunds will be made after this date. Cancellations received after this date will create a credit of the tuition (less processing fee) good toward any other EUCI event. This credit will be good for six months from the cancellation date. In the event of non-attendance, all registration fees will be forfeited. In case of course cancellation, EUCI's liability is limited to refund of the event registration fee only. For more information regarding administrative policies, such as complaints and refunds, please contact our offices

EUCI reserves the right to alter this program without prior notice.

