3 PHASE TRAINING



Basics of Electric Utilities 101

This overview of electric utilities will equip your organization with the foundational knowledge you need to work for or with an electric utility.

What is the course?

This one day, virtual or in person, class will unpack all the basic concepts, acronyms and trends of electric utilities from beginning to end. This will be the most captivating, entertaining and enlightening course you have every attended. Choose one 8 hour class or split into two 4 hour segments. Contact us to schedule a course.

This training will demystify generation, transmission, distribution, substations, balancing, storage, ancillary services and how electricity really works. Attendees will gain a much better understanding of energy markets, the different types of utilities and how they earn money. It will review the grid layout, equipment, overhead vs underground, substations, different types of generation and how they work as well as microgrids and distributed energy resources. All will leave with an appreciation for the different types of generation, goals, challenges, and new tools to balance them reliability.

Why Choose Us?

Cost

Your organization pays one course fee with unlimited attendees at no extra cost.

Quality and Experience

Real projects and interactive discussion connect concepts to practical decisions.

Customization

Each course content is individually customized to your team and organization

Content examples

Transmission & Distribution

- Key parts, pieces and equipment of the grid
- How substation & transformers work
- How to reduce and respond to outages
- Overhead vs undergrounds
- Demand charge, reactive demand, Vars
- ADMS, SCADA, DR, DER, RPS, and more
- See our website for more covered topics.

Generation & Balancing

- Types of generation and their future
- Energy storage uses and limitations
- Integrated resource plans, and RPS's
- The importance of forecasting
- Using the different markets to balance
- How a generator makes electricity
- What is AC, DC, 60hz, watts, voltage, etc

Business & Financial

- Types of utilities, IOU, PUD, Rural
- How utilities make money and fund projects
- Rates, tariffs, shareholders, emergencies
- O&M, capital, rate base, depreciation
- Public utility commissions and the GRC
- Regulations, FERC, NERC, DOE, WECC, etc.
- QF, IPP, ESS, CCA, BA, ISO, PP, and more

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