

## **Distribution System Operator Certificate (DSO)**

This program provides your student with a proficient working knowledge in modern electric power distribution systems. These four classes are designed to walk students through the information they need to perform their job and ensure system reliability.

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### **// Electric Power System Operations**

**4 Day Overview Class**

Electric Power System Operations provides an overview of the BES and the components used in generation, transmission, and distribution of electricity. The overview includes industry history and an introduction to electric power. It is designed for non-engineer power professionals to understand technical aspects of the electric grid such as:

- Electrical generation and power plants
- Substations and substation equipment
- Transmission and distribution
- System protection
- Personal protection

### **// Distribution Systems**

**4 Days**

Distribution Systems gives students working knowledge of technical and engineering concepts in modern distribution facilities equipment, construction practices, and design applications. It starts with an overview of the electric power system as it applies to distribution, customer services, and consumption, then discusses overhead and underground equipment applications and configurations, service reliability and power quality. It provides an in-depth examination of electrical safety, including arc flash, in high voltage environments.

## // **Advanced Distribution Concepts**

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5 Days

Advanced Distributions gives students an in-depth look into the relevant ancillary aspects of distribution planning, design, and operations. Students discuss methods to improve circuit reliability performance, techniques to manage voltage flicker/transients, and techniques to troubleshoot stray voltages and currents. Additionally, this class covers modern digital electronic devices and other smart means to improve distribution automation.

## // **Electrical Safety**

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3 Days

Electrical Safety provides a comprehensive understanding of theory and industry best practices to ensure personnel safety when dealing with electric power lines and substations. Students review safety equipment testing requirements and procedures for readiness, while learning common sense aspects of safe electrical grounding and how to evaluate jumpers' expected performance. Students learn to appreciate the rationale behind single-point grounding, proper vehicle safety, and equipment testing while discussing the OSHA safety accountability for proper personnel training and equipment election.