

May 6 – 10
2019

THE ACADEMY

Spring Education Institute

Omaha, Nebraska

Save \$100 when
you register for
both courses!

Technical Training Courses

Applied Electrical Distribution Theory

Electrical Distribution Principles, Applications
and Improvements



Course Highlights

Earn PDHs

Earn 22 PDHs for the Electrical Distribution Principles, Applications and Improvements class and 6.5 PDHs for the Applied Electrical Distribution Theory class.

Real-Life Examples

Classes are tailored to public power utilities and incorporate real-life examples. Network with peers from across the country and share experiences.

Experienced Instructors

Learn from instructors who have decades of experience in the electric utility industry and understand the specific needs of public power utilities.

Unique Teaching Environment

Instructors incorporate group discussion, check-up quizzes, practical design problems, videos, and Q&A sessions into the courses.

Who Should Attend

Courses are presented at a practical level and are appropriate for distribution engineers, technicians/designers, construction/operations personnel, and other utility professionals looking to increase their knowledge of electric utility distribution. Some familiarity with electrical circuit theory and applications is helpful, but not necessary.

For detailed course and instructor information, visit www.PublicPower.org/Academy under **Institutes & Certificates**.

Continuing Education Units



The American Public Power Association is accredited by the International Association for Continuing Education and Training (IACET) and is authorized to issue the IACET CEU.

Courses

Applied Electrical Distribution Theory

Monday, May 6

Recommended CEUs .7/PDHs 6.5/CPEs 7.8

Course Schedule

8:30 a.m. – 4:30 p.m.

Course Overview

Learn the fundamentals of electric circuit theory and the application of theory to electric utility distribution systems. Review the relationships between voltage, current, resistance and reactance, real and reactive power in single-phase and three-phase alternating current (AC) circuits. Perform some commonly encountered AC circuit calculations that are used to determine conductor and equipment ampacity ratings, circuit voltage drop, power factor, energy losses, and customer load estimation.

Course Level

Basic: no prerequisites; no advance preparation.

Instructor

M. Thomas Black, P.E., Management Consultant,
Collaborative Learning, Inc.

What to Bring

Participants are required to bring a scientific calculator.

Electrical Distribution Principles, Applications and Improvements

Tuesday, May 7 – Friday, May 10

Recommended CEUs 2.2/PDHs 22/CPEs 26.4

Course Schedule

Tuesday – Thursday: 8:30 a.m. – 4:30 p.m.

Friday: 8:30 a.m. – Noon

Course Overview

Receive a comprehensive and practical overview of electric utility distribution. Learn about electrical distribution system planning, design and operating criteria, as well as principles and practices related to customer loads and services, grounding, voltage regulation, insulation coordination, overvoltage protection, and overcurrent protection.

Review overhead, underground, and network distribution characteristics, advantages and disadvantages, components, and equipment. Because the distribution system is the heart of a public power utility, you'll also hear about business imperatives for distribution system performance and performance improvement.

Course Level

Basic/Intermediate: no prerequisites; no advance preparation.

Instructor

M. Thomas Black, P.E., Management Consultant,
Collaborative Learning, Inc.

What to Bring

Participants are required to bring a scientific calculator and are encouraged to bring copies of distribution planning criteria and design guides from their utility for class reference and discussion.

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both courses!**

Registration Information

Register online at: www.PublicPower.org/Academy
under Institutes & Certificates.

Events will be held at the Omaha Marriott Downtown at the Capitol District, 222 North 10th Street, Omaha, Nebraska 68102

APPA Room Rate

\$169 Single/Double (plus tax) – before April 15

Reservations

Contact the hotel directly at 402-807-8000 or visit our website to make online reservations. Note: rooms often sell out before the cutoff date, so reserve early.

Registration Fees

Prices increase \$50 after April 15.

Applied Electrical Distribution Theory, May 6

Association Members \$625

Nonmembers \$1,250

Electrical Distribution Principals, Applications and Improvements, May 7-10

Association Members \$1,595

Nonmembers \$3,190

Registration Discounts

Save **\$50** when you register before April 15

Save **\$100** when you attend both courses

Questions?

Email EducationInfo@PublicPower.org or call 202/467-2919.



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