

NORTHEAST PUBLIC POWER ASSOCIATION

ADVANCED LINEWORKER PROGRAM



NEW DATES

SEP 5 - 7, 2023
SEP 26 - 28, 2023
OCT 17 - 19, 2023
NOV 7 - 9, 2023



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ADVANCED LINEWORKER PROGRAM

NEPPA is pleased to offer a completely redesigned Advanced Lineworker Program which is held 3-days/week for 4 weeks/year. Advanced Lineworker is designed to equip participants with the knowledge, skills and resources necessary to build, maintain, troubleshoot and repair a distribution system. Upon successful completion of the Program, students are awarded a Certificate of Completion.

In addition to in-class lecture the Advanced Lineworker Program incorporates hands-on application of concepts, facility tours, and weekly testing including a final exam to demonstrate knowledge and comprehension of the course content.

WHO SHOULD ATTEND

This course is designed for individuals with 5+ years of experience as a lineworker, lineworkers with increased crew or leadership responsibilities, or cross departmental employees with new or increased leadership of lineworker personnel.

LEARNING OBJECTIVES

Upon completion of this four-week program, participants will be able to successfully:

1. Demonstrate a holistic understanding of Transmission & Distribution and overall operations including:
 - a. NESC
 - b. Overhead Distribution
 - c. Underground Distribution
 - d. Distributed Energy Resources (DERs) & Energy Storage
2. Apply concepts to build, maintain, troubleshoot, and repair a distribution system.
3. Demonstrated ability to correctly diagnose and repair a fault.
4. Explain the how and why of a distribution system's design.
5. Apply leadership and crew leadership best practices.





PREREQUISITES

Participants are expected to have completed NEPPA's Apprentice Lineworker Program (or another apprenticeship program). Participants are also expected to complete the Basic Electricity & Mathematics for Utility Operations course (held on Day 1 of the Program).

SUPPLEMENTAL MATERIALS

In addition to the student binder with module printouts and a program t-shirt, participants are provided the following supplemental materials*:

1. Calculator
2. Distribution Transformer Handbook
3. Lineman's Pocket Reference
4. UGLY's Electrical Reference
5. APPA Safety Manual

** Materials are provided in the Apprentice Lineworker Program and will only be distributed if a student has not already received them through other NEPPA programs.*

TESTING

Weekly Tests (20 Questions); Mid-Term Exam (25 Questions); Final Exam (50 Questions)

REGISTRATION FEES

To register, please visit neppa.org and complete the registration online.

Registration fees include lunch and breaks each day, student manuals, and the supplemental materials listed above.

Registration Fees:

NEPPA Members:	\$2,680
Non-Members:	\$3,980





ATTENDANCE POLICY

In order to receive a full Certificate of Completion, students are required to attend all 12-days of the Program. Any absences will be noted as a partial completion of the Program.

CANCELLATION POLICY

Cancellations are accepted until Tuesday, August 22, 2023 (two weeks prior to the start of the program). Substitutions may be made at any time prior to the first session.

QUESTIONS?

Please contact training@neppa.org or call the office at (978) 540-2200.

Support
NEPPA's
Benevolent
Fund

neppa.org/benevolent-fund/



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AGENDA

Agenda details are subject to change.

Session 1: September 5 - 7, 2023

Day 1

Basic Electricity & Mathematics for Utility Operations (BEM)

- 8:00 am Welcome & Introductions
 - 8:15 am **BEM Module 1:** Basic Electricity
 - 9:45 am Break
 - 10:00 am **BEM Module 2:** Basic Mathematics
 - 10:45 am **BEM Module 3:** Electric Power & Energy
 - 11:30 am Lunch
 - 12:00 pm **BEM Module 4:** Electrical Safety
 - 1:30 pm **BEM Module 5:** Power System Overview
 - 1:45 pm Break
 - 2:00 pm **Test (20 Questions)**
 - 3:00 pm Adjourn **
- ** Day 1 goes until 3:00 pm**

Session 2: September 26 - 28, 2023

Day 1

- 8:00 am Welcome, Introductions & Recap Week 1
- 9:00 am **Module 3:** Capacitors & Capacitor Banks
- 9:45 am Break
- 10:00 am **Module 3:** Capacitors & Capacitor Banks (cont.)
- 11:30 am Lunch
- 12:00 pm **Module 4:** Substation Components
- 2:00 pm Adjourn

Day 2

Beginning of Advanced Lineworker Program

- 8:00 am **Module 1:** Power Transformers
- 9:45 am Break
- 10:00 am **Module 1:** Power Transformers (cont.)
- 11:30 am Lunch
- 12:00 pm **Module 2:** Voltage Regulators
- 2:00 pm Adjourn

Day 3

- 8:00 am **Hands-On Exercises & Testing**
- 9:45 am Break
- 10:00 am Hands-On Exercises & Testing Cont.
- 11:30 am Lunch
- 12:00 pm **Review; Week 1 Test (20 Questions)**
- 2:00 pm Adjourn

Day 2

- 8:00 am **Module 4:** Substation Components (cont.)
- 9:45 am Break
- 10:00 am **Hands-On Exercises or Testing**
- 11:30 am Lunch
- 12:00 pm **Module 5:** Distributed Energy Resources & Energy Storage
- 2:00 pm Adjourn

Day 3

- 8:00 am **Substation & Battery Installation Tour**
- 11:30 am Lunch
- 12:00 pm **Review the Week; "Mid-Term" Test (25 Questions)**
- 2:00 pm Adjourn

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Session 3: October 17 - 19, 2023

Day 1

8:00 am Welcome, Introductions & Recap Weeks 1 & 2
9:00 am **Module 6:** Underground Distribution Review
9:45 am Break
10:00 am **Module 6:** Underground Distribution Review (cont.)
11:30 am Lunch
12:00 pm **Module 7:** System Protection
2:00 pm Adjourn

Day 2

8:00 am **Module 7:** System Protection (cont.)
9:30 am Break
9:45 am **Group Exercise: Developing a Protection Scheme**
Lunch
11:30 am **Group Exercise (cont.)**
12:00 pm Adjourn
2:00 pm

Day 3

8:00 am **Field Visit & Tour**
11:30 am Lunch
12:00 pm **Review the Week; Week 3 Test (20 Questions)**
2:00 pm Adjourn

Session 4: November 7 - 9, 2023

Day 1

8:00 am Welcome, Introductions & Recap Weeks 1, 2 & 3
9:00 am **Module 8:** Troubleshooting & Problem Solving
9:45 am Break
10:00 am **Module 8:** Troubleshooting & Problem Solving (cont.)
11:30 am Lunch
12:00 pm **Troubleshooting & Problem-Solving Exercises**
2:00 pm Adjourn

Day 2

8:00 am **Troubleshooting & Problem-Solving Exercises**
9:45am Break
10:00 am **Troubleshooting & Problem-Solving Exercises (cont.)**
11:30 am Lunch
12:00 pm **Field Visit & Tour**
2:00 pm Adjourn

Day 3

8:00 am Final Recap of Weeks 1 - 3
9:45 am Break
10:00 am Final Recap of Weeks 1 - 3 (cont.)
11:30 am Lunch
12:00 pm **Final Exam (50 Questions)**
1:30 pm Certificates of Completion
2:00 pm Adjourn



INSTRUCTORS

Steve Socoby, Safety & Technical Trainer
Authorized OSHA Outreach Instructor (Construction), First Aid/CPR/AED Certified Instructor



Steve has 36 years of hands-on experience in all facets of operations, of public power utilities including: Line Superintendent; supervision of crews, maintenance, new construction, reliability, and associated plant and substation responsibilities. He is a recognized expert in safety and OSHA compliance.

In his former role as Director of Training, Steve was responsible for development and quality of safety & technical programs. He also oversaw the lineworker school and teaches utility management and supervision, electronic controls and power-line operation programs.

Recognized as an industry leader and expert, in 2001 Steve received the Distinguished Service Award from the Northeast Public Power Association and has been recognized by the Maine State Legislature for his previous 30 Years of Distinguished Service. Steve attended the University of Maine at Orono.

In 2020 prior to his retirement as a full-time employee, Steve was honored for his long-standing commitment to NEPPA and the industry by being awarded the organization's Person of the Year Award.



Anthony Calascibetta, CUSP
Authorized OSHA Outreach Trainer (General & Construction), First Aid/CPR/AED Certified Instructor

Anthony joined NEPPA as part of the training team in May 2022
Anthony has 40 years of Electrical experience and 25 years of Electric Utility experience. Anthony started out as a Lineworker and progressed to the Substation Division as a Lead Substation Technician. He is proficient in relay testing, transformer testing, circuit breaker testing, and all aspects of wiring in overhead, underground, metering, and substations.
Anthony is an OSHA Authorized General Industry Trainer and OSHA Authorized Construction Trainer. It's an honor to be part of the NEPPA training team, and Safety Training is one of the most important assets of the Electric Utility. Remember, Safety Starts with You!





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