

**NORTHEAST PUBLIC POWER ASSOCIATION**

# **ADVANCED LINEWORKER PROGRAM**



**AUGUST 10 - 12, 2021**  
**SEPTEMBER 14 - 16, 2021**  
**OCTOBER 19 - 21, 2021**  
**NOVEMBER 2 - 4, 2021**



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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](http://neppa.org) and complete the registration online at [neppa.org](http://neppa.org).

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

### Registration Fees:

NEPPA Members:	\$2,605
Non-Members:	\$3,865





## 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, July 27, 2021.** Substitutions may be made at any time prior to the first session.

Cancellation fees will be charged based on the following schedule:

**2 weeks prior** to the 1st scheduled week of class = 100% refund of tuition

**Before completion of the 1st scheduled week** of class = 75% refund of tuition

**Before the completion of the 2nd scheduled week** of class = 50% refund of tuition

**After the 2nd scheduled week** of class = 0% refund of tuition

## QUESTIONS?

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

# AGENDA

Agenda details are subject to change.

## Session 1: August 10 – 12, 2021

**Instructors:** Tom Succi (Day 1) & Steve Socoby (Days 2 & 3)

### Day 1

#### **Basic Electricity & Mathematics for Utility Operations (BEM)**

8:00 am Welcome & Introductions  
8:15 am Basic Electricity  
9:15 am Break  
9:30 am Basic Mathematics  
10:45 am Electrical Safety  
11:30 am Lunch  
12:00 pm Electric Power & Energy  
12:45pm Power System Overview  
1:45 pm BEM Final Exam & Practical  
2:30 pm Review Final  
2:45 pm Certificates of Completion  
3:00 pm Adjourn \*\*

**\*\* Day 1 goes until 3:00 pm**

### Day 2

8:00 am Power Transformers  
9:45 am Break  
10:00 am Power Transformers (cont.)  
11:30 am Lunch  
12:00 pm 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  
11:30 am Lunch  
12:00 pm Review; Week 1 Test (20 Questions)  
2:00 pm Adjourn

## Session 2: September 14 – 16, 2021

**Instructor:** Steve Socoby

### Day 1

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

### Day 2

8:00 am Substation Components  
9:45 am Break  
10:00 am Hands-On Exercises, Testing or Guest Speaker  
11:30 am Lunch  
12:00 pm 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



# AGENDA

Agenda details are subject to change.

## Session 3: October 19 – 21, 2021

Instructor: Scott Larsen

### Day 1

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

### Day 2

8:00 am System Protection (cont.)  
9:30 am Break  
9:45 am Group Exercise (*To Be Determined*)  
11:30 am Lunch  
12:00 pm Group Exercise (cont.)  
2:00 pm Adjourn

### 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 2 – 4, 2021

Instructor: Steve Socoby

### Day 1

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

### Day 2

8:00 am Field Visit & Tour  
11:30 am Lunch  
12:00 pm Introduction to Leadership & Crew  
Leadership  
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

### **Stephen “Steve” Socoby, CUSP, Technical & Safety Trainer Authorized OSHA Outreach Instructor (Construction)**



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 former his role as Director of Training, Steve was responsible for development and quality of safety & technical programs. He also oversaw the lineworkers’ 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.

### **Thomas (Tom) Succi, Technical & Safety Trainer**



Tom has worked in metering in New England for the past 48 years as a meter technician, instructor, engineer, and manager. He has created instructional programs and taught in the region for most of his career and also ran the meter apprentice training for many years at National Grid as a Principal Trainer.

He recently retired as the Supervisor of Meter Test and Engineering at United Illuminating and looks forward to continuing his career as an instructor. Tom holds a BS and an AS in Engineering Technology as well as an advanced certificate in Management from WPI.

Tom and his wife Arlene currently reside in Connecticut.



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