

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 and complete the registration online at 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 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

Scott Larsen, Technical & Safety Trainer



Scott joined NEPPA in September 2020 and has 32 years of professional experience in the utility industry. Scott retired from his role as the General Line Foreman for Littleton Electric Light and Water Departments (LELWD) in spring 2020.

His significant field experience coupled with his passion for safety has made him an excellent addition to NEPPA's training team.

Well known for his stellar work with NEPPA's Lineworkers Rodeo, Scott is also quite familiar with NEPPA Mutual Aid and has participated in Light Up Navajo. In addition, Scott serves as an LELWD Commissioner in Littleton, MA where he resides.

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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