

SUBSTATION OPERATIONS SCHOOL

The *Substation Operations School* will provide participants with an opportunity to learn about the operations of a substation. This course will cover information and experiences to help recognize and eliminate potential hazards that arise within a substation. The Information covered will guide participants to a safer, more fulfilling career.

This school is not intended to certify an individual as outlined in (a) (2) (vii) of the 1910.269 Electrical Power Generation Transmission and Distribution Standard.



COURSE OUTLINE

- Introduction to Substations
- Substation Components:
 - Transformers
 - Circuit Breakers
 - Circuit Switchers
 - Disconnects
 - DC Systems
 - Grounding Grids
 - Electric Systems Protection
- Substation Safety
- Substation Operations and Switching
- Breaker Operations
- Load Tap Changers and Regulator Operations
- Personal Protective Grounding
- Battery Maintenance
- Basic Math and Calculations
- Electrical Systems Distribution Control Equipment
 - Breaker Station
 - Reclosure Station
 - Single-phase Voltage Regulator Station
 - Single-phase Reclosure/Trip Saver Station
- Reclosures
- Sectionalizers
- Regulators
- Capacitor Banks

STUDENT REQUIREMENTS

Students are required to bring the following:

- **Required PPE** (hard hat, work gloves, rubber gloves and protectors, **ANSI Z87** safety glasses, work boots)
- Voltage Meter
- Calculator
- Rain Gear
- FDR long-sleeve shirt(s)
- APPA Safety Manual 16th Edition

Students who are physically restricted to participate will be dismissed. Students with damaged or defective equipment will be dismissed.

PREREQUISITES

Three years of experience in linework or substation operations.

COURSE DATES

May 3 – 7, 2021

Registration deadline April 19, 2021

PRICE

Members: \$699

Associate Members: \$1049

Non-Members: \$1599

Price includes workbook, snacks and lunch (Tuesday – Thursday). Class Size is limited to 18

TIMES

Monday: 1:00 p.m.– 5:00 p.m.

Tuesday – Thursday: 8:00 a.m.– 5:00 p.m.

Friday: 8:00 a.m.– 12:00 p.m.

LOCATION

Greenville Utilities Commission

3355 NC 43 North
Greenville, NC 27834

HOTEL

Hilton Greenville

207 SW Greenville Blvd

Greenville, NC 27834

(252) 355-5000

Ask for the ElectriCities rate. \$139.00 per night plus tax

NASH COMMUNITY COLLEGE

This course is part of the Nash Community College Electric Line Construction Technology Degree program. Successful completion of the ElectriCities Substation Operations School grants participants credit for Nash's "Overhead Line Construction IV-BB" (ELT 117BB).



CANCELLATION POLICY

If a course is cancelled by ElectriCities, all registrants will be notified with a full registration fee refund. **Participant Cancellation and No Shows:** A non-refundable registration fee will be charged for cancellations after the **registration deadline of April 19, 2021.**

AFFILIATED PROGRAMS

*This course satisfies Safety School requirements for the following **ElectriCities programs:***

- ✓ Lineworker Career Development
- ✓ Underground Career Development

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