

SUBSTATION MAINTENANCE SCHOOL

The *Substation Maintenance School* will provide participants with the important components of maintaining a substation's transformers, relays, and breakers. This school will also provide information on SCADA and communication systems, and Thermography. As always, emphasis on safety and security will be covered.

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

- AC and DC Theory
- Power Transformers and Maintenance Testing
 - Why We Test
 - When We Test
 - What We Test
- Transformer Oil Sampling and Analysis
- DGA Sample Guide
- LTC and Regulators Inspections and Maintenance
- Protective Relay Fundamentals
- Substation Circuit Breakers
- Battery Maintenance and Troubleshooting
- SCADA and Communications
- Thermography
- Substation Safety
- Substation Security

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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
- 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.

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 August 30, 2021.**

COURSE DATES

September 13 – 17, 2021

Registration deadline August 30, 2021

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.

PRICE

Members: \$699

Associate Members: \$1049

Non-Members: \$1599

Price includes workbook, snacks and lunch (Tuesday – Thursday). Class Size is limited to 25

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. \$129.00 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 Maintenance School grants participants credit for Nash's "Advanced Line Construction" (ELT 221).