

# TRANSFORMER SCHOOL

The *Transformer School* will cover the basics of installing, maintaining and troubleshooting transformers and banks. Participants will apply this knowledge and skills towards installing overhead transformers and underground three-phase banks.



## COURSE OUTLINE

- Basic Electricity Principles
- Energizing Transformers
- Ferroresonance
- How to Draw and Read Vector Diagrams
- Secondary Rotation
- Single-phase Transformer Installation and Connections
- Single-phase Transformer Load Checks
- Special Purpose Transformers
- Three-phase Transformer Bank Connections
- Three-phase Transformer Bank Load Checks
- Transformer Construction
- Transformer Information and Characteristics
- Transformer Polarity
- Transformer Principles
- Underground Transformers
- Transformer Voltage Testing
- Wye and Delta Systems Characteristics

*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.*

## PREREQUISITES

Intermediate Lineworker School

## 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 May 31, 2021.**

## COURSE DATES

**June 14 – 18, 2021**

Registration deadline May 31, 2021

## PRICE

**Members:** \$699

**Associate Members:** \$1049

**Non-Members:** \$1599

*Price includes workbook, snacks and lunch Monday – Thursday. Class size is limited to 18.*

## TIMES

Monday: 9:00 a.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

**Paul Joseph MD Library and Education Center**

113 West Main Street

Maiden, NC 28650

## HOTEL

**Hampton Inn**

1956 13<sup>th</sup> Avenue Drive SE

Hickory, NC 28602

(828) 624-2000

*Ask for the Electricities rate. \$119.00 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 Transformer School grants participants credit for Nash's "Overhead Line Construction IV-AB" (ELT 117AB).

## AFFILIATED PROGRAMS

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

- ✓ Lineworker Career Development
- ✓ Underground Career Development
- ✓ Apprenticeship (Level 3)

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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)
- Side Cutter Pliers
- Channel Lock Pliers
- Lineman's Hammer
- Large Flathead Screwdriver
- 12" Adjustable wrench
- Ratchet wrenches 1/2", 9/16", 5/8", 3/4"
- Hex Key set 3/16-3/8
- Folding Fiberglass Ruler
- Skinning knife
- Lineman's ratcheting wrench
- Penta Star wrench
- 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.*

\* To purchase, contact Jill LaBorde at:  
919-760- 6301 or [jlaborde@electricities.org](mailto:jlaborde@electricities.org)