Apprentice Programs

Programs are based on the Northwest Lineman College curriculum. The Northwest Lineman College curriculum is ACCSC- and IACET-accredited. Instructors bring value-added content and years of practical experience in the field. Instructors are dedicated to offering the best combination of classroom and hands-on training available. Apprentice programs focus on their core subject and typically include First Aid, Safety, NESC and OSHA Safety Code modules.

LINEMAN TECHNICIAN APPRENTICE

(Eight 32-hour workshops over 4 years + OJT)

The Lineman Technician program is designed to progress the student from an entry level to an entry journal level. The program training focuses on its lineman core and includes modules on:

- AC Fundamentals
- Applied Mathematics
- Basic Electrical Theory
- Communications
- Crew Leadership
- Electrical Systems
- Personal Protective Grounding
- Transformer Basics
- OH & UG Conductors
- Metering
- System Power Flow
- Operation, Protection and Automation
- Maps and Standards
- Vegetation Management
- OH & UG Line Design
- OSHA 1910.269, NESC 1&2

SUBSTATION TECHNICIAN APPRENTICE

(Eight 32-hour workshops over 4 years + OJT)

The Substation Technician program is designed to progress the student from an entry level to an entry journal level. The program training focuses on its substation core and includes modules on:

- Substation Safety
- Applied Mathematics
- Basic Electrical Theory
- Circuit Breakers
- Electronics
- Power Transformers
- Metering and Instrument Transformers
- DC Systems
- Capacitors
- Reactors and Surge Arresters
- Relays
- Equipment Testing
- Substation Design and Construction
- Substation Automation and Protection
- Rigging
- Disconnects and Switches

Training

- Groundman Training (First Aid and VDOT/Flagger Certification)
- First-Aid Training and Certification
- Fork-Truck Operation Training and Certification
- VDOT Work Zone Safety Training and Certification
- Flagger Certification

Services

- Rubber Goods Testing
- Hot-Line Tool Testing

METERING TECHNICIAN APPRENTICE

(Eight 32-hour workshops over 4 years + OJT)

The Metering Technician program is designed to progress the student from an entry level to an entry journal level. The program focuses on its metering core and includes modules on:

- Meter Safety
- Math for Metering
- Meter Basics (Standards, Forms, Functions, Services)
- Meter Wiring
- Meter and IT Testing (Shop and Field)
- Instrument Transformers
- AMR/AMI Systems
- High Bill Complaints and Customer Relations

SYSTEM OPERATOR CERTIFICATION

(Six 32-hour workshops over 3 years + OJT)

The System Operator program is designed to progress the student from an entry level to an entry journal level. The program focuses on its System Operator core and includes modules on:

- Basic Electrical Theory
- AC Fundamentals
- Electrical Systems
- Power Delivery
- Power Flow
- Working on Lines and Stations
- Personal Protective Grounding
- Disconnects and Switches
- Maps and Standards
- Circuit Breakers
- Transformers, Capacitors, Reactors and Surge Arresters
- Relays
- Substation Automation
- Protection, Communications and Operations