



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.

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

The Lineworker Technician program is designed to progress the student from an entry level to an entry journey level. The program training focuses on its lineworker core and includes modules on:

- AC Fundamentals
- Applied Mathematics
- Basic Electrical Theory
- Communications
- Crew Leadership
- 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 journey 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 Arrestors
- Relays
- Equipment Testing
- Substation Design and Construction
- Rigging
- Disconnects and Switches

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 OT Testing (Shop & Field)
- Instrument Transformers
- AMR/AMI Systems
- High Bill Complaints & Customer Relations
- AC Concepts
- System Operation and Automation
- Installation Checks and Inspections
- Voltage Transformers

SYSTEM OPERATOR APPRENTICE (Six 32-hour workshops over 1.5 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
- Surge Arrestors
- Relays
- Substation Automation
- Protection, Communication and Operations

FIBER TECHNICIAN CERTIFICATION (Five 24-hour workshops)

Participants completing the program will earn their FBA OptIC Path Fiber Certification.

- Fiber Optic Introduction and Applications
- Safety, Tools, and Equipment
- Types and Geometry of Fiber
- Cable Types & Construction
- Architectures & Topologies
- Connectors and Splitters
- Splicing
- Cable and Fiber Management
- OSP & Premise Best Practices
- Testing & Troubleshooting

Additional Training

- Groundman Training (First Aid, and VDOT/Flagger Certification)
- Adult First Aid | CPR AED Certification
- Fork-Truck Operation Training & Certification
- VDOT Work Zone Safety Training & Certification
- Flagger Certification
- Leadership Training
- Accident Investigation Training
- Drone Training & Certification Prep