

# American Line Builders Joint Apprenticeship Training

## Outside Electrical Apprenticeship

Program Details		Overview
<b>Name</b>	American Line Builders and Joint Apprenticeship Training Program	Encompasses / Supports Eight State Region
<b>Clients</b>	Electrical Contractors, Rural Electric Cooperatives, Municipals	Funding and administration via partnership between the American Line Builders Chapter (NECA) and 4 <sup>th</sup> & 6 <sup>th</sup> Districts (IBEW)
<b>Students</b>	1,658 Apprentices (2022YE)	Main campus located Medway, Ohio
<b>Programs</b> <ul style="list-style-type: none"> <li>▪ Outside Line</li> <li>▪ Substation Technician</li> <li>▪ Cable Splicer Technician</li> <li>▪ Traffic Signal Technician</li> <li>▪ Transmission Technician</li> <li>▪ URD Technician</li> </ul>		<b>Benefits and Achievements</b> <ul style="list-style-type: none"> <li>▪ Federally Registered (DOL)</li> <li>▪ etA based Curriculum</li> <li>▪ EICA / NCCCO Examination Facility</li> <li>▪ Publication and Editorial Contribution/Recognition</li> </ul>
		<b>Affiliations</b> <ul style="list-style-type: none"> <li>▪ American Council on Education</li> <li>▪ Outside Program Educational Committee</li> </ul>
		<b>Key Facts</b> <ul style="list-style-type: none"> <li>▪ Established August 26, 1958</li> <li>▪ Location: Medway, Ohio</li> <li>▪ Campus: Classrooms, Dormitory, Commons, Indoor/Outdoor T&amp;D Facilities (19.875 ac)</li> <li>▪ Apprentices Trained (1967 to present): 6,978</li> </ul>



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### **Direct Entry: Three Methods Used**

- **Organizing**
- **Pre-apprenticeship: Veteran's Electrical Entry Program**
- **Transfer of Apprenticeship**

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### Introductory Training

- **3-Week Sessions**
  - **Learning Objectives**
    - **Safety Procedures**
    - **OSHA Regulations**
    - **Electrical Theory**
    - **Pole Climbing (Line Only)**
    - **Pole-Top Rescue (Line Only)**
    - **Bucket-Truck Rescue**
    - **First Aid & Basic Life Support**
    - **Ropes & Knot Tying**
    - **Rigging**
    - **Equipment Operation**

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### Related Training Classes

- **89 classes held throughout ALBAT Territory**
  - **45 Different Locations**
- **October through June of each year**
- **5-Hour Classes**
  - **Instructional Presentations**
  - **Administer Exam**

# **American Line Builders Joint Apprenticeship Training Outside Electrical Apprenticeship**

## **Advancement Testing: A Competency Assessment for Promotion**

### **Evaluation of Fundamental Practical Skills and Knowledge**

- **2<sup>nd</sup> to 3<sup>rd</sup> Level**  
**Demonstrate Principle and Practice Skills to Recognize Hazards  
In/Around an Energized Work Area**
  
- **5<sup>th</sup> to 6<sup>th</sup> Level**  
**Demonstrate Technical Preparedness Skills  
Required of Complex T&D Construction**

**Line Apprentices Only**

**Seven of Eight States Participate**

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### Technology (Computer-Based)

#### ProTech Skills (LMS): A Single Source for Information

- **Developing Customized Courses on LMS**
  - **Introductory Training**
  - **Advancement Testing**
- **Use of Student Lead Courses to Supplement in Person Training**
  - **Online Courses**
    - **Crane and Digger Derrick Awareness**
    - **Bucket Truck Awareness**
    - **Lineworker Rigging Practice**

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### **Technology (Mobile)**

- **Equipment Simulator: Mobile Instruction**
  - **Digger Derrick Hazard Awareness Training**  
**Equipment Positioning Importance**  
**Qualified Observer Understanding**  
**Proper Grounding**  
**Load Control**
  - **Instruction Through**  
**Simulator Use (Skill Focused)**  
**Hands On**  
**Classroom Instruction**
- **Introduction to EICA Practical Course**

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### On-The-Job Training

- **2,000 hours required of Energized Work “Hot Work”**
  - **Work completed by hand/hot stick within minimum approach of energized conductor/equipment**
- **Subcommittee(s) Control Rotation**
  - **Based on Type of Work and Hours Needed**
- **Ratio 1 to 1**

*Expandable via apprenticeship Standards (2019) language, Section 17 “Number of Apprentices: The Ratio”:*

*“Where the employer and Program Sponsor document and verify that the specific work assignments for the apprentice warrants an expanded ratio, such as for de-energized work, rough-in work, or material handling, the jobsite ratio shall be permitted to be expanded as specified in the CBAs applicable to these Standards.”*

### Journeyman Lineman Exam

- **Local Union Administers Exam**



# American Line Builders Joint Apprenticeship Training

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### New Underground/Substation Building



**Cable Splicing Training**

**Substation Training**

- **Transformer Control House & Structure**

**Two Classrooms/Labs**

**Timpson Trainer**

Thank you!