Power Line Technologies
2025-2026

Short Course Description:	This program provides training for students who wish to prepare for jobs in the power line field. A combination of lab and classroom activities provides the experience and knowledge to help you gain an entry-level position in this growing career field. This course blends curriculum prepared by National Center for Construction Education and Research (NCCER), American Electric Power (AEP), OSHA, NEC and our professional trades instructors					

Certifications Offered:	● AEP D-100 Series
	● AEP D-200 Series
	● AEP D-300 Series
	● Class A Unrestricted CDL
	● Mid-East Safety Certificate:
	  ○ OSHA 30
	  ○ American Safety and Health Institute First Aid/CPR/AED
	  ○ Industrial Forklift Training Certificate					

Start Date:	July 28, 2025					
End Date:	May 21, 2026					
Hours/Days:	Monday – Thursday, 4:30 – 10:00 pm (5.5 hours/day)					
Program Hours:	900					
Instructional Weeks:	41					
Book/Laptop Cost:	$683		**Supplies**:	$2,510		
Tuition:	$13,600		**Fees:**	$1,486		
Total Program Cost:	$18,279					
Additional program requirements not included in tuition:	Driver's Abstract $10.00, CDL Permit - $28.50, CDL License - $43.50					
Entrance Requirements:	Provide copy of high school or GED transcript, Driver Abstract, and valid driver's license. Prospective enrollees must complete a field assessment administered by the Power Line course instructors. Students must also complete all financial aid arrangements for payment of tuition, fees, books and supplies. After start of class, students will receive their DOT physical and must successfully complete a drug screen—negative results allow student to remain in class. Must have valid driver's license.					
WorkKeys – required/not required:	Required					
WorkKeys Score Levels:	**Workplace Documents**	3	**Graphic Literacy**	3	**Applied Math**	3
Graduation Rate:	94%					
Job Placement Rate:	93%					
Program Completion Requirements:	● A "C" average or higher ● Attendance rate not less than 90% ● Payment of all outstanding obligations to the school ● Current resume on file with Student Services ● Stafford Loan Exit Counseling complete (if applicable)					

Power Line Technologies Course Outline

D100 Series AEP Curriculum	System Overview, Safety Policy and Personal Responsibility, Job Requirements and Expectations, Guides and Reference Sources, Personal Protective Equipment, Selection of Body Belt and Climbers, Sharpen Gaffs, Stretching and Flexibility, Butt Test a Wood Pole, Learn to Climb a Pole, Basic Knots and Splices, Use of Handline, Identify Pole Line Material, Identify Conductor Material, Identify Transformer Material, Chain Saw Operation, Identify Specialty Tools, Insulating Protective Equipment, Pulling Tools, Set Up Ladders, Barricade Digger- Derrick and Bucket Truck, Bucket Truck Rescue, Firefighting, Smith Defensive Driving
D200 Series AEP Curriculum	Effective Job Safety Briefing, Pole Climbing, Identify Circuits, Low Voltage Test Equipment, Make Up and Install Outdoor Lights, Install Cross Arm, Install Equipment for 3 Phase Transformer Bank, Adjust Crimping Tools, Identify and Use Different Types of Cutters, Splice Conductor On Ground, Splice Overhead Service Cable, Operate Truck Mounted Winch and Auxiliary Capstan, Install and Operate Capstan Hoist, Pole Top Rescue, Position and Operate Bucket Truck, Qualified Observer, Bucket Truck Rescue, Set Up and Operate Digger-Derrick, Load and Unload Poles, Identify and Install Anchors, Operate Mechanical or Hydraulic Pole Puller, Identify URD Materials and Equipment, Select and Install Wire Grip, Operate Hydraulic Tools, Read KWH Meter, Spill Response and Cleanup
D300 Series AEP Curriculum	Safety First, Pole Climbing, Basic Electricity, High Voltage Detectors, Install Grounds on Distribution Line, Cover Secondary, Install Overhead Service, Install Socket Meters, Install and Tag Direct Burial Cable, Install Pedestal and Make Service Connections, Use Secondary Fault-Finding Equipment, Splice URD Service, Patrol Lines for Damage, Dog Bite Prevention, Teamwork Skills
CDL Class A Unrestricted	Classroom, Backing Range, Road –Driving Skills
AEP Rigging	Advanced Rigging Technologies, testing and certification
High Voltage Principles	Line workplace simulations, hot sticking and safety concerns
Underground Residential Distribution	HPI Clear Communications, Pole Climbing, Pole Top Rescue, Install URD Fault Indicators, Tree Trimming Techniques, Use Insulating Protective Equipment, Change Out Padmount Transformer, Identify High-Voltage URD Cable, Install Primary Cable Termination, Install URD Elbow, Troubleshoot URD Lines, Secondary Fault Finding, Splice UG Service, Use Hi-Pot Tester, Pad Mounted Switch Gear, Test and Install Ground Elbow, UG Primary Fault Locating, Transformer Basics, Splice Primary URD, Operate Three Phase Banks
Transformer Theory	HPI N-1 Procedure Compliance, Pole Climbing, Advanced Transformers, Transformer Refresher, HV AMP Meter Reading, Operate a Material Handler, Use Loadbreak Tool, Install Secondary CT's, Replace Pin Insulator on Corner, Install Insulated Work Platform, Operate Track Machine, CSP Transformers, Parallel a Service, Check

	Phase Rotation, Replace 69 KV Insulators, Replace Sub-Transmission Crossarm, Rigging Fundamentals, Qualified Observer, Identify Transmission Material, Replace Transmission Insulators, Communication Skills Training, Use Insulating Protective Equipment
Tower Climbing	Tower Climb

Power Line Technologies Hour Breakdown

Course	Theory	Lab	Total Hours
AEP D-100	50	170	220
AEP D-200	30	180	210
AEP D-300	48	152	200
Class A Unrestricted CDL	36	44	80
OSHA 30 Hour General Industry	30	0	30
First Aid CPR	10	0	10
AEP Rigging Class	5	5	10
High Voltage Principles	7	33	40
Underground Residential Distribution	20	20	40
Transformer Theory	20	20	40
Tower Climbing	0	20	20
Total	**256**	**644**	**900**