

Electrical Power-Line Installers and Repairers

SOC: 49-9051 • Career Profile Report

■ Key Facts

\$92,560

Median Salary

127,400

Employment

+7.0%

Growth Rate

■ Requirements & Salary Range

Education: High school diploma

■ Automation Risk Assessment

Low Risk - 25.0% probability of being automated in the next 10-20 years.

This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■ Work-Life Balance

6.4/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	8.8/10	Investigative	7.4/10
Artistic	4.4/10	Social	5.6/10
Enterprising	4.6/10	Conventional	6.4/10

■ Top Skills Required

Ability to work at heights, Color vision, Interpersonal skills, Physical stamina, Physical strength, Problem-solving skills, Technical skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Electrical Power-Line Installers and Repairers typically perform the following tasks:

- Adhere to safety practices and procedures, such as checking equipment regularly and erecting barriers around work areas.
- Drive vehicles equipped with tools and materials to job sites.
- Open switches or attach grounding devices to remove electrical hazards from disturbed or fallen lines or to facilitate repairs.
- Climb poles or use truck-mounted buckets to access equipment.
- Install, maintain, and repair electrical distribution and transmission systems, including conduits, cables, wires, and related equipment, such as transformers, circuit breakers, and switches.
- Inspect and test power lines and auxiliary equipment to locate and identify problems, using reading and testing instruments.
- Coordinate work assignment preparation and completion with other workers.
- Replace or straighten damaged poles.
- String wire conductors and cables between poles, towers, trenches, pylons, and buildings, setting lines in place and using winches to adjust tension.
- Attach cross-arms, insulators, and auxiliary equipment to poles prior to installing them.
- Dig holes, using augers, and set poles, using cranes and power equipment.
- Travel in trucks, helicopters, and airplanes to inspect lines for freedom from obstruction and adequacy of insulation.
- Identify defective sectionalizing devices, circuit breakers, fuses, voltage regulators, transformers, switches, relays, or wiring, using wiring diagrams and electrical-testing instruments.
- Install watt-hour meters and connect service drops between power lines and consumers' facilities.
- Test conductors, according to electrical diagrams and specifications, to identify corresponding conductors and to prevent incorrect connections.
- Place insulating or fireproofing materials over conductors and joints.
- Splice or solder cables together or to overhead transmission lines, customer service lines, or street light lines, using hand tools, epoxies, or specialized equipment.
- Trim trees that could be hazardous to the functioning of cables or wires.
- Pull up cable by hand from large reels mounted on trucks.
- Lay underground cable directly in trenches, or string it through conduit running through the trenches.

*Generated by StartRight • Data from U.S. Bureau of Labor Statistics & O*NET*

Source: <https://www.bls.gov/ooh/installation-maintenance-and-repair/line-installers-and-repairers.htm>