Electrical and Electronics Installers and Repairers

SOC: 49-2092 • Career Profile Report

■ Key Facts

\$71,270Median Salary

118,800 Employment

+0.0%
Growth Rate

■ Requirements & Salary Range

Education: See Requirements (BLS)

■ 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

7.3/10 - 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

Color vision, Communication skills, Physical stamina, Physical strength, Technical skills, Troubleshooting skills

√ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Electrical and Electronics Installers and Repairers typically perform the following tasks: • Inspect and test equipment to locate damage or worn parts and diagnose malfunctions, or read work orders or schematic drawings to determine required repairs. Reassemble repaired electric motors to specified requirements and ratings, using hand tools and electrical meters. • Measure velocity, horsepower, revolutions per minute (rpm), amperage, circuitry, and voltage of units or parts to diagnose problems, using ammeters, voltmeters, wattmeters, and other testing devices. • Repair and rebuild defective mechanical parts in electric motors, generators, and related equipment, using hand tools and power tools. • Lift units or parts such as motors or generators, using cranes or chain hoists, or signal crane operators to lift heavy parts or subassemblies. • Record repairs required, parts used, and labor time. • Disassemble defective equipment so that repairs can be made, using hand tools. • Adjust working parts, such as fan belts, contacts, and springs, using hand tools and gauges. • Lubricate moving parts. • Read service guides to find information needed to perform repairs. • Inspect electrical connections, wiring, relays, charging resistance boxes, and storage batteries, following wiring diagrams. • Scrape and clean units or parts, using cleaning solvents and equipment such as buffing wheels. • Weld, braze, or solder electrical connections. • Verify and adjust alignments and dimensions of parts, using gauges and tracing lathes. • Steam-clean polishing and buffing wheels to remove abrasives and bonding materials, and spray, brush, or recoat surfaces as necessary. • Set machinery for proper performance, using computers. • Test equipment for overheating, using speed gauges and thermometers. • Reface, ream, and polish commutators and machine parts to specified tolerances, using machine tools. • Maintain stocks of parts. • Cut and form insulation, and insert insulation into armature, rotor, or stator slots.

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

Source: https://www.bls.gov/ooh/installation-maintenance-and-repair/electrical-and-electronics-installers-and-repairers.htm