

Electrical and Electronics Repairers, Powerhouse, Substation, and Relay

49-2095.00



Description: Inspect, test, repair, or maintain electrical equipment in generating stations, substations, and in-service relays.

Other Resources:

[ONET Link](#)

[MyNextMove Link](#)

Sample of Reported Job Titles: Electrical and Instrumentation Technician (E and I Technician)

Job Zone

Title: 3 - Medium Preparation Needed

Education: Require training in vocational schools, related on-the-job experience, or an associate's degree.

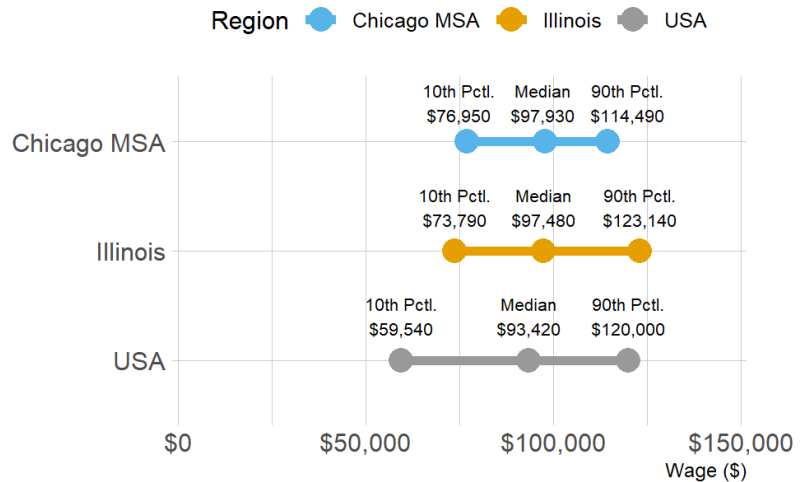
Experience: Previous work-related skill, knowledge, or experience is required.

Training: One or two years of training involving both on-the-job experience and informal training with experienced workers needed. A recognized apprenticeship program may be associated with these occupations.

Core Certifications: Instrumentation Certification, Cable Splicing Certification

Hot Technologies: Autodesk AutoCAD, Microsoft Office Suite, Supervisory control and data acquisition SCADA software

Region	Employment	Location Quotient	Median Wage
Chicago MSA	220	0.32	\$97,930
Illinois	390	0.43	\$97,480
USA	22,490	—	\$93,420



Top 5 Core Tasks According to Current Job Holders

Importance
Frequency (out of 100)

Inspect and test equipment and circuits to identify malfunctions or defects, using wiring diagrams and testing devices such as ohmmeters, voltmeters, or ammeters.

Daily

90

Consult manuals, schematics, wiring diagrams, and engineering personnel to troubleshoot and solve equipment problems and to determine optimum equipment functioning.

Several times daily

88

Prepare and maintain records detailing tests, repairs, and maintenance.

Daily

88

Analyze test data to diagnose malfunctions, to determine performance characteristics of systems, or to evaluate effects of system modifications.

Daily

85

Notify facility personnel of equipment shutdowns.

Daily

84