

# Occupational Profile



# Electrical Power Line Installers

## WHAT THEY DO

Installs or repairs cables or wires used in electrical power or distribution systems. May erect poles and light or heavy duty transmissions towers. Belongs to the Architecture and Construction cluster.

## SKILLS YOU NEED

### Basic Skills:

- Reading Comprehension
- Active Listening
- Speaking
- Critical Thinking
- Active Learning
- Monitoring

### Transferable Skills (applicable in other careers):

#### High level

- Observing and diagnosing electrical/electronic problems
- Repairing electrical/electronic objects

#### Medium level

- Following mfg blueprints and diagrams
- Operating earth moving or drilling equipment
- Repairing large fixed structures and objects
- Using electrical repair hand and power tools
- Using electrical/electronic testing instruments
- Using welding and soldering machines and equipment

### Workplace Skills:

#### Medium level

- Complex Problem Solving
- Coordination
- Equipment Maintenance
- Judgment and Decision Making
- Management of Personnel Resources
- Operation and Control
- Operation Monitoring
- Quality Control Analysis
- Repairing
- Time Management
- Troubleshooting

Additional skills for this occupation may be found at <http://www.iowaworkforcedevelopment.gov/career-exploration-resources>

## IS THIS FOR YOU?

**Work Interests** are described in the following categories (compatible with Holland's Model) by people who tend to succeed in this career:

- **Realistic** – You are a "doer". You like physical activities and projects. You like to find the answers to problems by doing hands-on work instead of talking about solutions.
- **Conventional**—You are an "organizer". Keeping things neat and organized is important to you. You like working with charts and reports, and work well with power and authority.
- **Investigative**—You are a "thinker". When you have a problem, you like to analyze it and look at different ways to solve it. You like to work by yourself, and you don't like explaining your ideas to other people.

**Work Values** are aspects of work that are satisfying to you. The following work values are generally associated with this career.

- **Independence**—It's very important to you that your work allows you to make decisions on your own. You want to try out your own ideas and work with little supervision.
- **Support**—It's very important to you to know the company stands behind its workers and has competent, considerate and fair management.
- **Working Conditions**—It's very important to you that your work satisfies your needs in areas like salary, job security, and your working style preferences, such as working alone, staying busy all the time or having variety in your tasks.

**Aptitudes** reflect a person's ability to acquire skills and knowledge. The following aptitudes are important for success in the career:

- **General Learning Ability**
- **Eye-Hand Coordination**
- **Manual Dexterity**

Source: <https://secure.ihaveaplaniowa.gov/>

## ESTIMATED & PROJECTED EMPLOYMENT

Occupational Title	2012 Estimated Employment	2022 Projected Employment	2012-22 Employment Change	Annual Growth Rate (%)	Total Annual Openings
Total, All Occupations	1,758,205	1,955,480	197,275	1.1	61,665
Installation, Maintenance, & Repair Occupations	68,585	76,810	8,225	1.2	2,420
Electrical Power-Line Installers & Repairers	1,620	1,730	115	0.7	65

Source: <http://www.iowaworkforcedevelopment.gov/occupational-projections-0>

## 2015 WAGE & SALARY (\$)

Occupational Title	Average Wage	Average Salary	Entry Wage	Entry Salary	Experienced Wage	Experienced Salary
Total, All Occupations	19.77	41,122	9.55	19,858	24.88	51,755
Installation, Maintenance, & Repair Occupations	20.43	42,500	13.17	27,387	24.07	50,056
Electrical Power-Line Installers & Repairers	27.38	56,949	18.12	37,700	32.01	66,574

Source: <http://www.iowaworkforcedevelopment.gov/occupational-projections-0>

## EDUCATION & TRAINING

Education	Work Experience	Job Training
High School Diploma	None	Long-Term On-The-Job

Most companies require line installers and repairers to have a high school diploma or equivalent. Employers look for people with basic knowledge of algebra and trigonometry and good reading skills. Technical knowledge of electricity or electronics obtained through military service, vocational programs, or community colleges is helpful. Line installers and repairers get most of their training on the job. Electrical line installers and repairers often must complete formal apprenticeships or other employer training programs. These programs, which can last up to 5 years, combine on-the-job training with technical instruction and are sometimes administered jointly by the employer and the union representing the workers. Safety regulations define the training and educational requirements for apprentice electrical line installers, but licensure is not required. Approved apprenticeship

## NATIONAL CAREER READINESS CERTIFICATE (NCRC)

Skill	Median Skill Level
Applied Mathematics	3
Locating Information	4
Reading for Information	4

This ACT-developed credential demonstrates achievement and a certain level of workplace employability skills. The greater the score, the greater the skill level (Bronze = 3, Silver = 4, Gold = 5, Platinum = 6).

Source: <http://www.act.org/workkeys/analysis/occup.html>

## PRIMARY INDUSTRY SECTORS

### (Where are Electric Power Line Installers Employed?)

Utilities  
Local Government  
Heavy and Civil Engineering Construction  
Specialty Trade Contractors  
Telecommunications

Source: <http://www.iowaworkforcedevelopment.gov/occupational-projections-0>

## ADDITIONAL SOURCES:

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