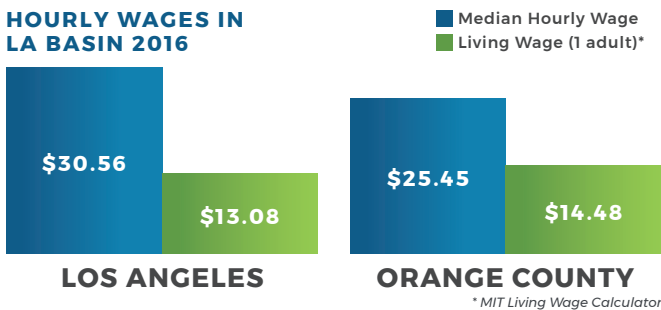


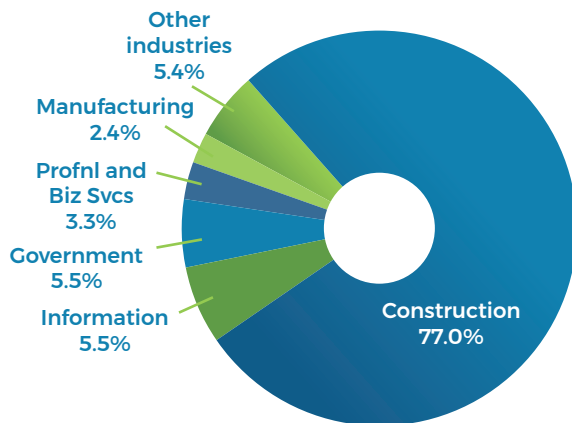
## Electricians (SOC 47-2111)

Electricians are identified as a middle-skill occupation. They install, maintain, and repair electrical wiring, equipment, and fixtures. Ensure that work is in accordance with relevant codes. May install or service street lights, intercom systems, or electrical control systems.

### HOURLY WAGES IN LA BASIN 2016



### INDUSTRY DISTRIBUTION



### Industry Distribution:

Electricians are hired across a number of different industries. These industries are where individuals who have acquired the necessary training and skills may seek employment opportunities post-program. Construction hires the most workers in this occupation in the LA Basin. The three industry subsectors who employ the largest number of electricians, craft workers and inside wiremen in the LA Basin are:

- Specialty trade contractor (NAICS 238)
- Motion picture and sound recording industries (NAICS 512)
- Local government (NAICS 93)

<b>Jobs in LA Basin</b> <b>17,180</b> in 2016	<b>Total Openings</b> <b>2,990</b> 2016 to 2021
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### At A Glance

**Projected Openings 2021:**

- 2,990 Total Openings (5-yr)
- 1,680 Net Job Change
- 1,310 5-yr Replacements

**Community Colleges Supply:**

- 577 awards
- 3 Programs
- 18 colleges

**Technology:**

- Analytical or scientific software
  - Construction Master Pro; Elite Software Inpoint
- Computer aided design CAD software Hot technology
  - One Mile Up Panel Planner; SmartDraw
- Data base user interface and query software
  - Insight Direct ServiceCEO; Resolve Systems Service Management
- Spreadsheet software
- Word processing software
  - Socrates Contractor's Library

Sources: BLS OES, O'NET, LAEDC

### Core Tasks and Importance:

- 89** Plan layout and installation of electrical wiring, equipment, or fixtures, based on job specifications and local codes.
- 87** Connect wires to circuit breakers, transformers, or other components.
- 86** Test electrical systems or continuity of circuits in electrical wiring, equipment, or fixtures, using testing devices, such as ohmmeters, voltmeters, or oscilloscopes, to ensure compatibility and safety of system.
- 85** Use a variety of tools or equipment, such as power construction equipment, measuring devices, power tools, and testing equipment, such as oscilloscopes, ammeters, or test lamps.
- 85** Inspect electrical systems, equipment, or components to identify hazards, defects, or the need for adjustment or repair, and to ensure compliance with codes.
- 83** Prepare sketches or follow blueprints to determine the location of wiring or equipment and to ensure conformance to building and safety codes.

## Worker Characteristics

The demographics of the workforce provide an additional layer of information to further highlight who is employed in this occupation in the LA Basin:

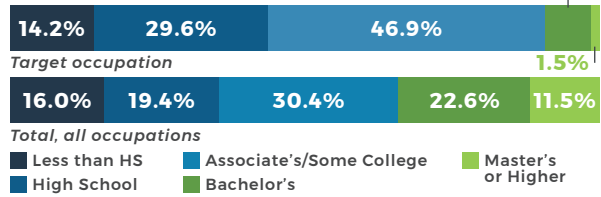
- Most workers have the educational attainment of some college or an associate's degree.
- A smaller share of workers are ages 55 years and over in this occupation compared to the regional average.
- A larger share of workers are Hispanic in this occupation compared to the regional average.
- The workforce is predominantly male, accounting for 99 percent of all workers.

## Related Occupations

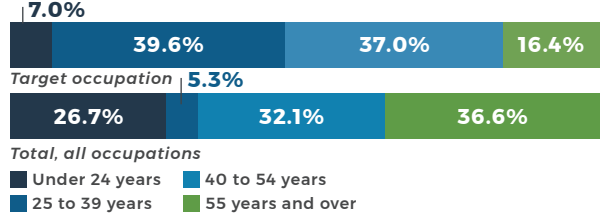
Individuals with similar skill sets that are transferable with retraining or additional training being offered:

- **SOC 47-4021** Elevator installers and repairers (940 workers),
- **SOC 49-2022** telecommunications equipment installers and repairers (12,280 workers),
- **SOC 49-2094** Electric repairers, commercial and industrial (2,230 workers), and
- **SOC 49-9071** Maintenance and Repair Workers (47,180 workers).

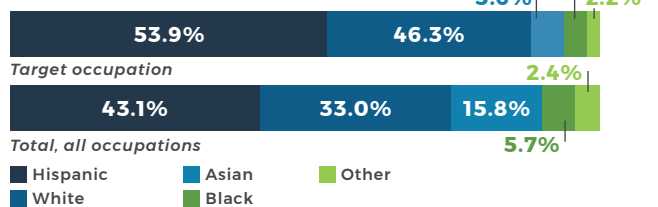
### EDUCATIONAL ATTAINMENT 2016



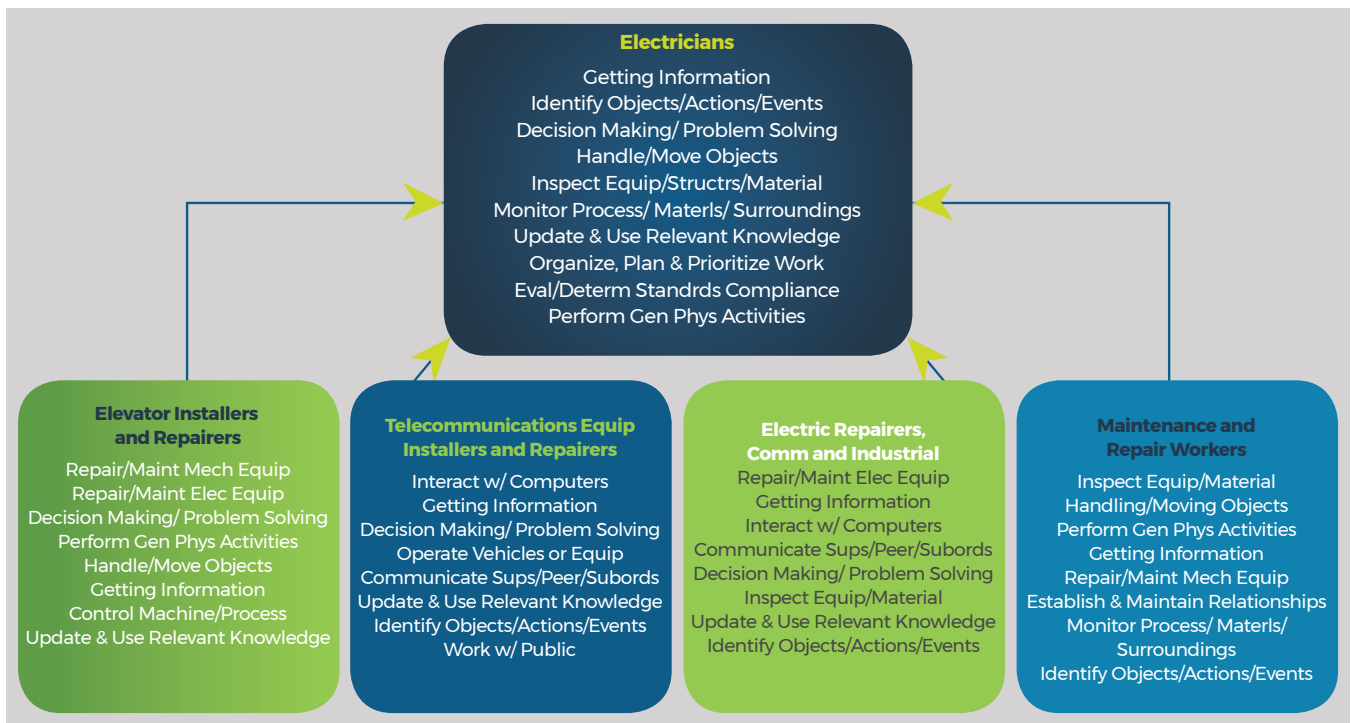
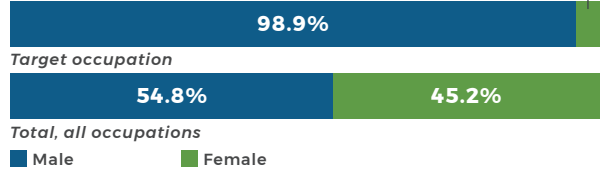
### AGE DISTRIBUTION 2016



### RACE AND ETHNICITY 2016



### GENDER 2016



Sources: U.S. Census Bureau ACS PUMS, O\*NET, LAEDC