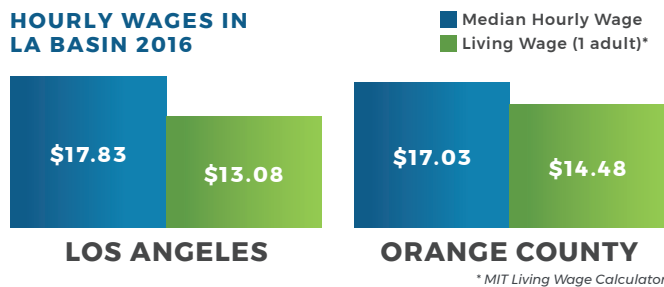


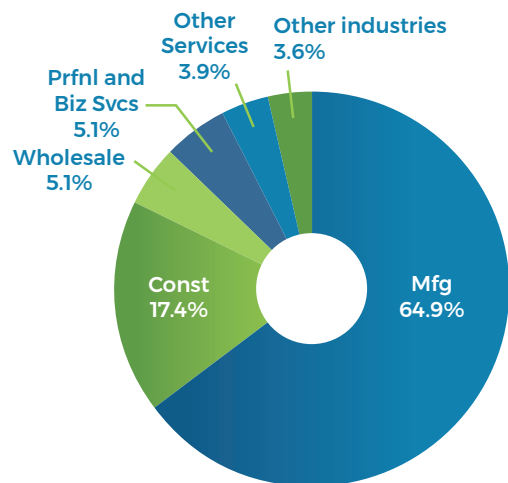
Welders, Cutters, Solderers & Brazers (SOC 51-4121)

Welders, cutters, solderers and brazers are identified as a middle-skill occupation. They use hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

HOURLY WAGES IN LA BASIN 2016



INDUSTRY DISTRIBUTION



Industry Distribution:

Welders, cutters, solderers and brazers 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. Manufacturing hires the most workers in this occupation in the LA Basin. The three industry subsectors who employ the largest number of welders, cutters, solderers and brazers in the LA Basin are:

- Fabricated Metal Product Mfg (NAICS 332)
- Transportation Equipment Mfg (NAICS 336)
- Specialty Trade Contractors (NAICS 238)

Jobs in LA Basin 9,608 in 2016	Total Openings 2,170 2016 to 2021
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At A Glance

Projected Openings 2021:

- 2,170 Total Openings (5-yr)
- 790 Net Job Change
- 1,370 5-yr Replacements

Community Colleges Supply:

- 207 awards
- 1 Program
- 12 colleges

Technology:

- Analytical or scientific software
 - Scientific Software Group Filter Drain FD
- Calendar and scheduling software
 - OmniFleet Equipment Maintenance Management
- Computer aided design CAD software
 - EZ Pipe
- Data base user interface and query software

Sources: BLS OES, O*NET, LAEDC

Core Tasks and Importance:

- 90** Weld components in flat, vertical, or overhead positions
- 89** Operate safety equipment and use safe work habits.
- 87** Layout, position, align, and secure parts and assemblies prior to assembly, using straightedges, combination squares, calipers, and rulers.
- 85** Examine workpieces for defects and measure workpieces with straightedges or templates to ensure conformance with specifications.
- 79** Recognize, set up, and operate hand and power tools common to the welding trade, such as shielded metal arc and gas metal arc welding equipment.

Middle Skill Relevance

Welders, cutters, solderers and brazers can learn the required skills in a variety of ways, including on-the-job training, apprenticeships and career technical training programs. A professional certification, Certified Welder (CE), will increase access to positions associated with the higher wages in this occupation.

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:

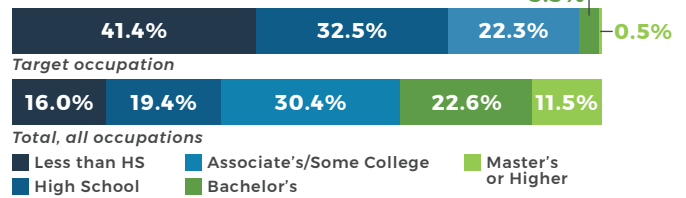
- While the entry level education is high school, most workers have the educational attainment of less than high school.
- A smaller share of workers are ages 55 years and over in this occupation compared to the regional average.
- The workforce in this occupation is predominantly Hispanic, accounting for 80 percent of all workers.
- The workforce is predominantly male, accounting for 96 percent of all workers.

Related Occupations

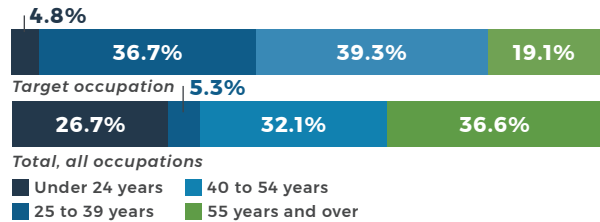
Individuals with similar skill sets that are transferable with retraining or additional training being offered:

- **SOC 51-4031** Cutting, punching and press machine setters, operators and tenders, metal and plastic (6,430 workers),
- **SOC 51-4034** Lathe and turning machine tool setters, operators and tenders, metal and plastic (2,211 workers),
- **SOC 51-4072** Molding, coremaking and casting machine setters, operators and tenders (3,745 workers), and
- **SOC 51-4122** Welding, soldering and brazing machine setters, operators and tenders (1,496 workers).

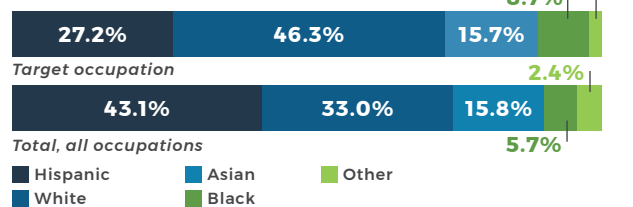
EDUCATIONAL ATTAINMENT 2016



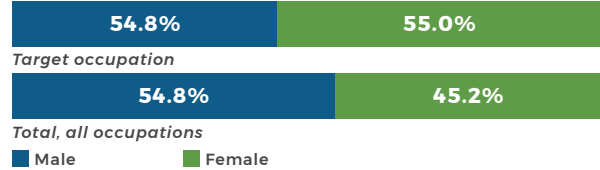
AGE DISTRIBUTION 2016



RACE AND ETHNICITY 2016



GENDER 2016



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