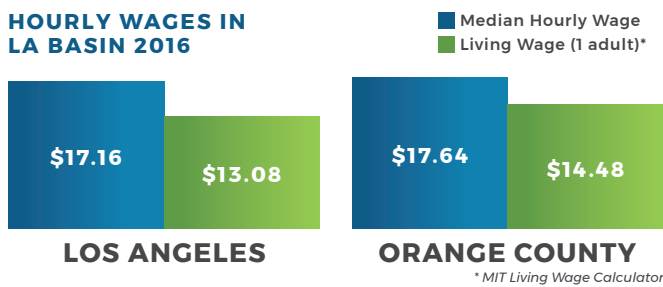


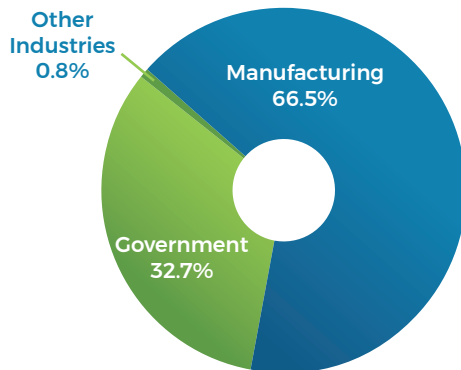
Computer-Controlled Machine Tool Operators, Metal and Plastic (SOC 51-4011)

Computer-Controlled Machine Tool Operators are identified as a middle-skill occupation. They operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.

HOURLY WAGES IN LA BASIN 2016



INDUSTRY DISTRIBUTION



Industry Distribution:

Computer-Controlled Machine Tool Operators 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 brake press operators, Computer Numerical Control (CNC) Lathe Operator and CNC machinists in the LA Basin are:

- Fabricated Metal Product (NAICS 332)
- Transportation Equipment (NAICS 336)
- Computer and Electronic Product (NAICS 334)

Jobs in LA Basin 6,610 in 2016	Total Openings 1,490 2016 to 2021
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At A Glance

Projected Openings 2021:

- 1,490 Total Openings (5-yr)
- 490 Net Job Change
- 1,000 5-yr Replacements

Community Colleges Supply:

- 292 awards
- 2 Programs
- 15 colleges

Technology:

- Analytical or scientific software
 - CNC Consulting Machinists' Calculator; Kentech Trig Calculator
- Computer aided design CAD software Hot technology
 - Autodesk Auto CAD; Dassault Systems SOLIDWORKS; KCD
- Computer aided manufacturing CAM software Hot technology
 - TCadCam Unigraphics; CNC Mastercam; SmartCAM
- Project management software
- Spreadsheet software

Sources: BLS OES, O'NET, LAEDC

Core Tasks and Importance:

- 90** Measure dimensions of finished workpieces to ensure conformance to specifications, using precision measuring instruments, templates, and fixtures.
- 87** Mount, install, align, and secure tools, attachments, fixtures, and workpieces on machines, using hand tools and precision measuring instruments.
- 86** Stop machines to remove finished workpieces or to change tooling, setup, or workpiece placement, according to required machining sequences.
- 86** Transfer commands from servers to computer numerical control (CNC) modules, using computer network links.
- 85** Check to ensure that workpieces are properly lubricated and cooled during machine operation.
- 85** Set up and operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic workpieces.

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:

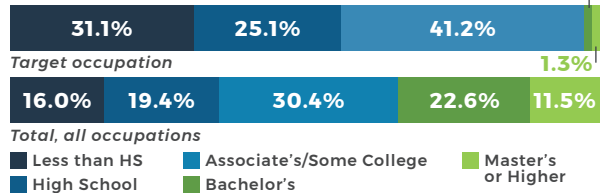
- A larger share of workers have the educational attainment of some college or an associate's degree in this occupation compared to the regional average.
- Most workers in this occupation are 40 to 54 years, accounting for 47 percent of all workers.
- The workforce in this occupation is predominantly Hispanic, accounting for 52 percent of all workers.
- The workforce is predominantly male, accounting for 97 percent of all workers.

Related Occupations

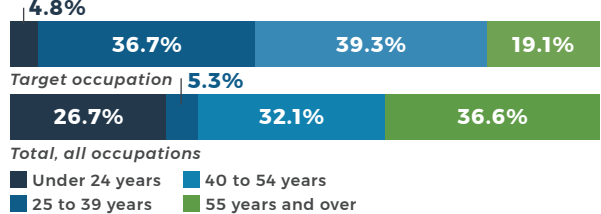
Individuals with similar skill sets that are transferable with retraining or additional training being offered:

- **SOC 51-4081** Multiple machine tool setters, operators, and tenders, metal and plastic (2,880 workers),
- **SOC 51-4191** Heat treating equipment setters, operators, and tenders, metal and plastic (930 workers),
- **SOC 51-4033** Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic (4,340 workers), and
- **SOC 51-7041** Sawing machine setters, operators, and tenders, wood (1,010 workers).

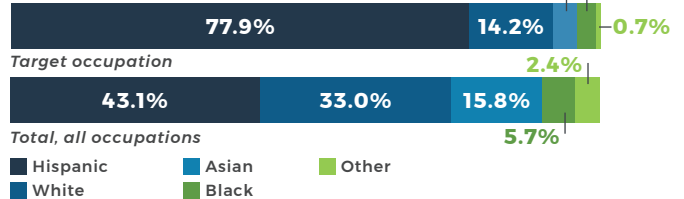
EDUCATIONAL ATTAINMENT 2016



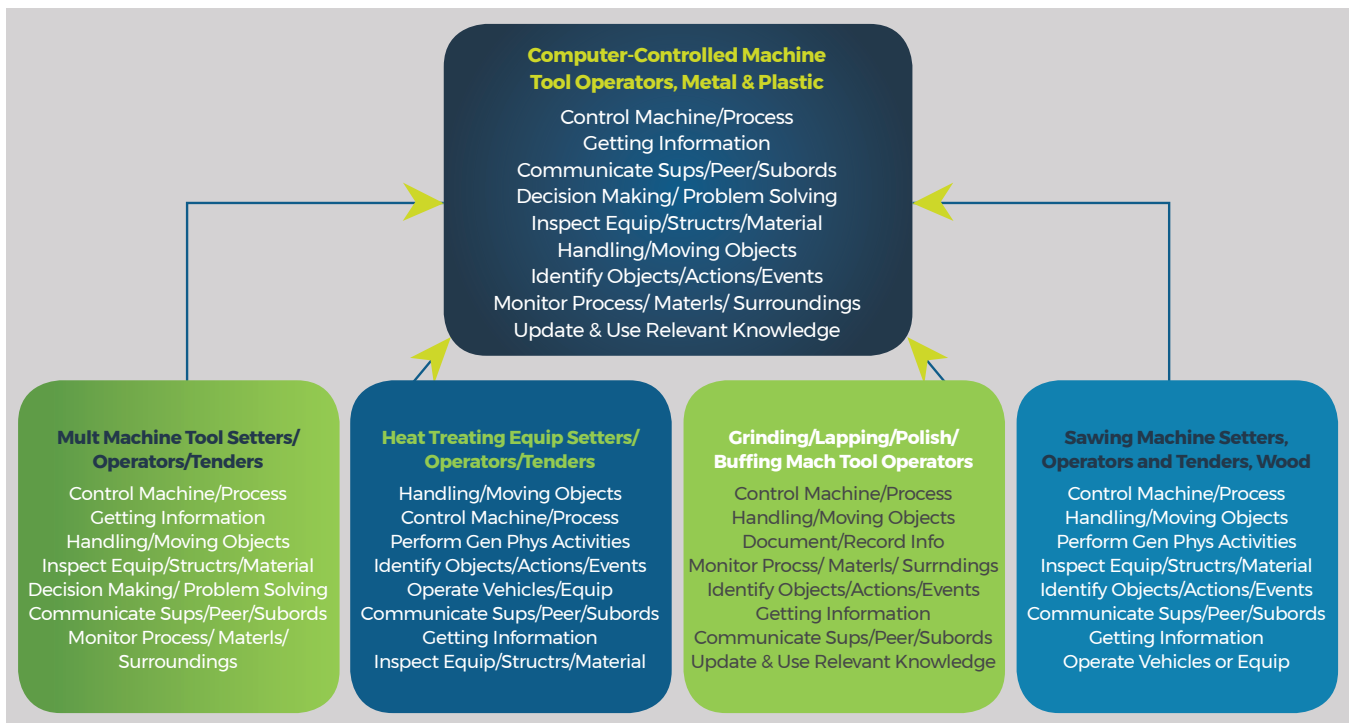
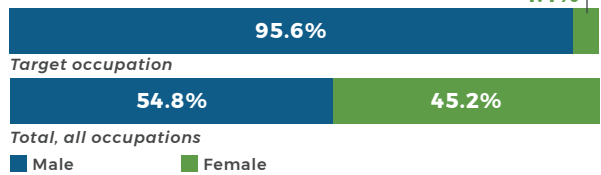
AGE DISTRIBUTION 2016



RACE AND ETHNICITY 2016



GENDER 2016



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