

Appendix

Talent Flow Analysis: San Diego Ship Repair

GLOSSARY:

- **Childcare desert:** is an area with either (1) greater than a 3:1 ratio of children to childcare openings, or (2) more than 3,000 children without a spot.
- **Community college exposure:** All students who took at least 0.5 units in any single credit course or who had at least 12 positive attendance hours in any noncredit course(s) or who enrolled in noncredit course(s) in Spring of the previous academic year or any term in the selected academic year and who enrolled on a TOP code that is assigned to a vocational industry sector in the selected year.
- **Community college completion:** Number of unduplicated SWP students who earned a noncredit certificate, Chancellor's Office approved certificate, associate degree, and/or CCC baccalaureate degree on a TOP code assigned to a vocational sector and who were enrolled in the district on any TOP code in the selected year or who attained apprenticeship journey status on a vocationally flagged TOP code in the selected year and who were enrolled at any community college at the start of the apprenticeship program on a vocationally flagged TOP code.

APPENDIX:

Job categories, Standard Occupation Classification (SOC), and Taxonomy of Programs (TOP) codes

Metal Working (Fabricators, Welders, Sheetmetal workers, Layout men)

51-4121 (Welders, Cutters, Solderers, and Brazers) 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.

51-4122 (Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders) Set up, operate, or tend welding, soldering, or brazing machines or robots that weld, braze, solder, or heat treat metal products, components, or assemblies. Includes workers who operate laser cutters or laser-beam machines.

TOP: Welding Technologies (095650)

Machinists (Inside machinists, Outside machinists, Plate shop, Burners, Machine operators)

51-4081 (Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic) Set up, operate, or tend more than one type of cutting or forming machine tool or robot.

51-4193 (Plating Machine Setters, Operators, and Tenders, Metal and Plastic) Set up, operate, or tend plating machines to coat metal or plastic products with chromium,

zinc, copper, cadmium, nickel, or other metal to protect or decorate surfaces. Typically, the product being coated is immersed in molten metal or an electrolytic solution. Excludes "Coating, Painting, and Spraying Machine Setters, Operators, and Tenders" (51-9124).

TOP: Machining and Machine Tools (095630)

Piping (Pipe welder, Pipefitter, Pipe tester)

47-2151 (Pipelayers) Lay pipe for storm or sanitation sewers, drains, and water mains. Perform any combination of the following tasks: grade trenches or culverts, position pipe, or seal joints. Excludes "Welders, Cutters, Solderers, and Brazers" (51-4121).

47-2152 (Plumbers, Pipefitters, and Steamfitters) Assemble, install, alter, and repair pipelines or pipe systems that carry water, steam, air, or other liquids or gases. May install heating and cooling equipment and mechanical control systems. Includes sprinkler fitters.

47-3015 (Helpers--Pipelayers, Plumbers, Pipefitters, and Steamfitters) Help plumbers, pipefitters, steamfitters, or pipelayers by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist plumbers, pipefitters, steamfitters, or pipelayers are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).

TOP: Plumbing, Pipefitting and Steam fitting (095230)

Electricians

47-2111 (Electricians) 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. Excludes "Security and Fire Alarm Systems Installers" (49-2098).

47-3013 (Helpers--Electricians) Help electricians by performing duties requiring less skill. Duties include using, supplying, or holding materials or tools, and cleaning work area and equipment. Construction laborers who do not primarily assist electricians are classified under "Construction Laborers" (47-2061). Apprentice workers are classified with the appropriate skilled construction trade occupation (47-2011 through 47-2231).

TOP: Electrical (095220)

SOURCES:

Company employment data: [Data Axle](#)
 Economic mobility in skilled trades: [Brookings](#)
 Regional demographic information: [US Census](#)
 Community College CTE data: [Cal-PASS Plus](#)
 K-12 CTE enrollment data: [CA Dept of Education](#)