

Outdoor Power Equipment and Other Small Engine Mechanics

Labor Market Analysis: San Diego County

January 2018

Summary

The following list summarizes findings from the labor market analysis below for *Outdoor Power Equipment and Other Small Engine Mechanics*:

- Between 2016 and 2021, *Outdoor Power Equipment and Other Small Engine Mechanics* are projected to increase by eight jobs (or four percent) in San Diego County.
- Employers in San Diego County will need to hire 22 workers annually to fill new jobs and to backfill jobs due to attrition such as retirement or turnover.
- Between 2010 and 2017, there was an average of five online job postings per year for *Outdoor Power Equipment and Other Small Engine Mechanics* in San Diego County.
- *Outdoor Power Equipment and Other Small Engine Mechanics* earn median hourly earnings of \$15.21, more than the self-sufficiency wage (\$13.09 per hour) for a single adult in San Diego County.
- According to the California Community Colleges Chancellor's Office Management Information System (MIS) Data Mart, no colleges supply the region with any awards for this occupation. This may be due to the fact that this occupation's typical entry-level education is no formal educational credential. If an occupation does not require any formal training, then there may be no need for an institution to provide education or training to meet labor demand.
- Comparing the labor market demand against labor supply, there is a supply gap for this occupation in San Diego County, with 22 annual openings and zero awards. Comparatively, there are 289 annual openings in California and 17 awards. The typical entry-level educational requirement for this occupation is a high school diploma or equivalent, therefore, local educational institutions may not need to develop training programs for this occupation.
- Between January 1, 2015 and December 31, 2017, the top two employers in San Diego County for this occupation were South Bay Ford and North County Equipment Inc.
- The typical on-the-job training for this profession is moderate-term. The typical entry-level education is a high school diploma or equivalent.

Introduction

This report provides labor market information in San Diego County for the following occupational code in the Standard Occupational Classification (SOC)¹ system:

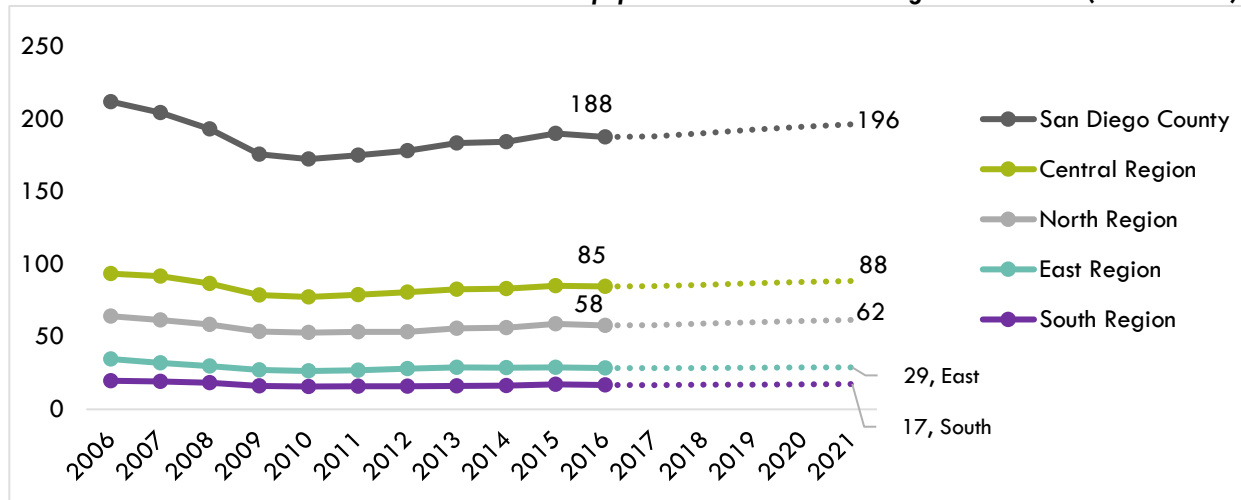
Outdoor Power Equipment and Other Small Engine Mechanics (SOC 49-3053): Diagnose, adjust, repair or overhaul small engines used to power lawn mowers, chain saws, recreational sporting equipment and related equipment. Sample reported job titles include:

- Small Engine Mechanic
- Golf Cart Mechanic
- Small Engine Technician
- Service Technician
- Outdoor Power Equipment Service Technician
- Mechanic
- Lawnmower Repair Mechanic
- Lab Technician
- Power Saw Mechanic
- Gas Engine Repairer

Projected Occupational Demand

Between 2016 and 2021, *Outdoor Power Equipment and Other Small Engine Mechanics* are projected to increase by **eight** jobs (or **four** percent) in San Diego County (Exhibit 1a and Exhibit 1b).²

Exhibit 1a: Number of Jobs for Outdoor Power Equipment and Other Small Engine Mechanics (2006-2021)³

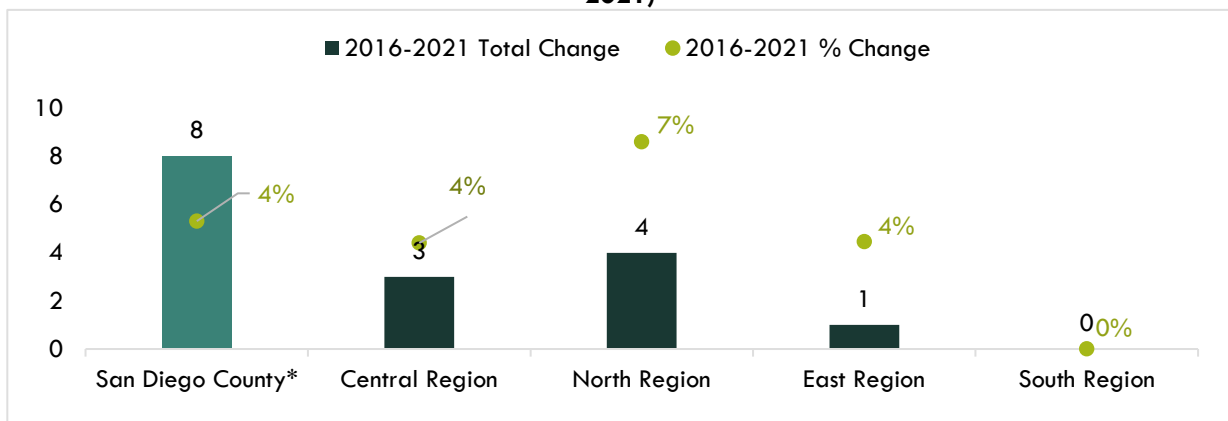


¹ The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating or disseminating data. [bls.gov/soc/](https://www.bls.gov/soc/)

² South, East, Central and North Regions' ZIP codes in this report are defined by the local Workforce Development Board, the San Diego Workforce Partnership.

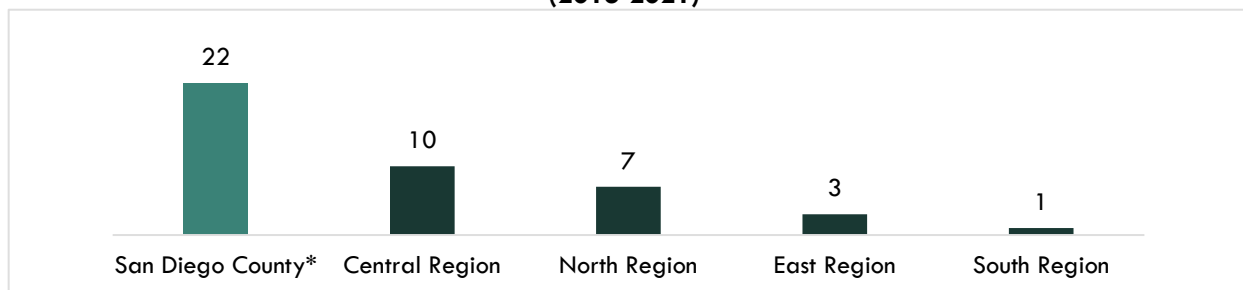
³ Economic Modeling Specialists, Int'l. (EMS). San Diego County (6073). 2017.03 Class of Worker. QCEW + Non-QCEW+ Self-employed. 2006-2021.

Exhibit 1b: Five-Year Projections for Outdoor Power Equipment and Other Small Engine Mechanics (2016-2021)⁴



Employers in San Diego County will need to hire 22 workers annually to fill new jobs and backfill jobs due to attrition such as retirement or turnover (Exhibit 2). The most demand will be in the Central Region.

Exhibit 2: Projected Annual Openings for Outdoor Power Equipment and Other Small Engine Mechanics (2016-2021)⁵



*Total annual openings for the subregions in San Diego County may not add up exactly due to rounding.

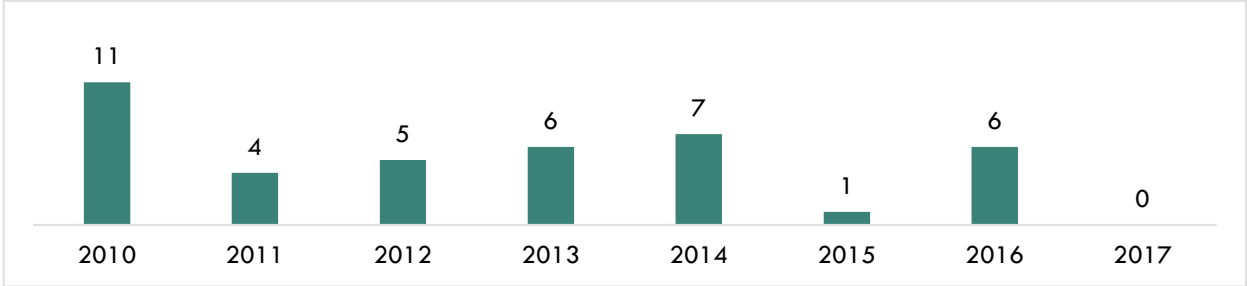
Online Job Postings

Between 2010 and 2017, there was an average of five online job postings per year for Outdoor Power Equipment and Other Small Engine Mechanics in San Diego County (Exhibit 3).

⁴ EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

⁵ EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

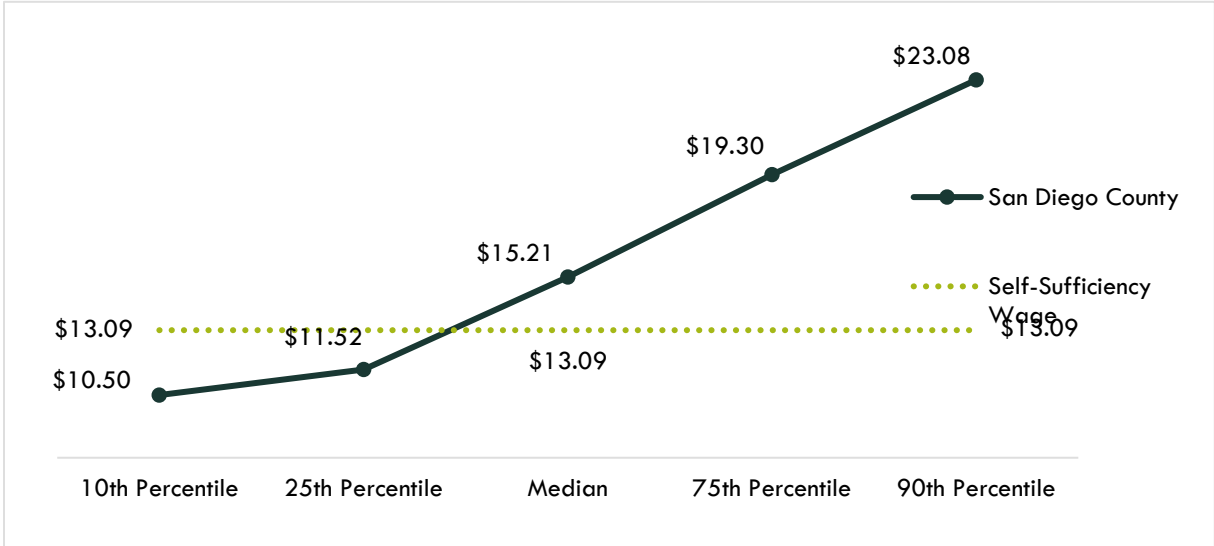
Exhibit 3: Number of Online Job Postings for Outdoor Power Equipment and Other Small Engine Mechanics in San Diego County (2010-2017)⁶



Earnings

Outdoor Power Equipment and Other Small Engine Mechanics earn median hourly earnings of **\$15.21**, more than the self-sufficiency wage (\$13.09 per hour)⁷ for a single adult in San Diego County (Exhibit 4).

Exhibit 4: Hourly Earnings for Outdoor Power Equipment and Other Small Engine Mechanics in San Diego County⁸



Educational Supply

Educational supply for an occupation can be estimated by analyzing the number of related program completers/graduates/awards in San Diego County. To determine what programs are available, Exhibit 5 lists the Taxonomy of Programs (TOP) code(s) related to the SOC code analyzed.

⁶ Labor Insight Jobs. Burning Glass Technologies. San Diego, CA. Full years 2010-2017.
⁷ The self-sufficient wage in San Diego for one adult is \$13.09 (insightccd.org/tools-metrics/self-sufficiency-standard-tool-for-california).
⁸ EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

Exhibit 5: Related TOP Codes in San Diego County

SOC 49-3053: Outdoor Power Equipment and Other Small Engine Mechanics

TOP 094830: Motorcycle, Outboard and Small Engine Repair

According to the California Community Colleges Chancellor's Office Management Information System (MIS) Data Mart, no colleges supply the region with awards for this occupation (Exhibit 6). This may be due to the fact that this occupation's typical entry-level education is no formal educational credential. If an occupation does not require any formal training there may be no need for an institution to provide education or training to meet labor demand.

Exhibit 6 shows the annual average regional community college awards (associate degrees and certificates) conferred during the three academic years between 2013 and 2016 as well as other awards granted outside the California Community Colleges from 2012 to 2015 with the relevant TOP code.

Please note: An award is not equivalent to a single person in search of a job opening because a student may earn more than one award such as an associate degree in addition to a certificate.

Exhibit 6: Number of Awards (Certificates and Degrees) Conferred by Postsecondary Institutions by Occupation (Program Year 2012-13 through PY2015-16 Average)

TOP06	TOP06 Title	3-Yr Annual Average Supply (PY13-14 to PY15-16)	3-Yr Annual Average CC Awards (PY13-14 to PY15-16)	Other Educational Institutions 3-Yr Annual Average Awards (PY12-13 to PY14-15)
094830	Motorcycle, Outboard and Small Engine Repair	0	0	0

*Total number of awards may not add up exactly due to rounding.

Demand vs. Supply

Comparing the labor demand (annual openings) with labor supply⁹ from the region's community colleges, there is a supply gap for this occupation in San Diego County, with 22 annual openings and zero awards. Comparatively, there are 289 annual openings in California and 17 completions.¹⁰ The typical entry-level educational requirement for this occupation is a high school diploma or equivalent, therefore, local educational institutions may not need to develop training programs for this occupation.

⁹ Labor supply can be found from two different sources: EMSI or the California Community Colleges Chancellor's Office MIS Data Mart. EMSI uses CIP codes while MIS uses TOP codes. Different coding systems result in differences in the supply numbers.

¹⁰ EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

Exhibit 7: Labor Demand (Annual Openings) Compared to Labor Supply (Average Annual Awards)

Community Colleges and Other Postsecondary Educational Institutions	Demand (Annual Openings)	Supply (Total Annual Average Supply)	Supply Gap or Oversupply
San Diego County	22	0	22
California	289	17	272

Please note: This is a basic analysis of supply and demand of labor for these occupations. This data should be used to discuss the potential gaps or oversupply of workers for these occupations; however, it should not be the only basis for determining whether or not a program should be developed. Additionally, the data does not include workers who are currently in the labor force whos could fill these positions or workers who are not captured by publicly available data.

Student Outcomes

Based on the information available in the CTE LaunchBoard,¹¹ students who took courses in the related TOP codes exhibited the following outcomes (Exhibit 8).

Exhibit 8: Strong Workforce Program Metrics for TOP 094830 Motorcycle, Outboard and Small Engine Repair vs. All Programs in San Diego-Imperial Region (PY2014-15)

Metric	TOP 094830	All Programs
Number of course enrollments ¹²	22	1,009,712
Number of students who got a degree or certificate ¹³	N/A ¹⁴	17,536
Number of students who transferred ¹⁵	0	6,269
Employed in the second fiscal quarter after exit ¹⁶	N/A ¹⁷	66%
Employed in the fourth fiscal quarter after exit ¹⁸	N/A ¹⁹	65%
Job closely related to field of study ²⁰	N/A ²¹	N/A ²²

¹¹ calpassplus.org/LaunchBoard/SWP.aspx.

¹² The number of enrollments in courses assigned to the TOP code in the selected year.

¹³ The number of unduplicated students who earned a locally-issued certificate, Chancellor's Office approved certificate, associate degree, and/or California Community Colleges bachelor's degree in the selected TOP code.

¹⁴ There are insufficient data to calculate this metric.

¹⁵ Students who took non-introductory courses or completed a California Community Colleges Chancellor's Office award in the selected TOP code in selected year who subsequently enrolled for the first time in a four-year institution the following year.

¹⁶ Among all exiters with a valid SSN, the percentage who were employed two quarters after exiting California Community Colleges.

¹⁷ There are insufficient data to calculate this metric.

¹⁸ Among exiting students with a valid SSN, the percentage who were employed four quarters after exiting California Community Colleges.

¹⁹ There are insufficient data to calculate this metric.

²⁰ Among students who responded to the CTEOS, the percentage reporting employment in the same or similar field as their program of study.

²¹ There are insufficient data to calculate this metric.

²² Data for this metric has not been released for PY2014-15; however, in PY2013-14, the result was 81%.

Metric	TOP 094830	All Programs
Median earnings in the second fiscal quarter after exit ²³	N/A ²⁴	\$9,134
Median change in earnings ²⁵	N/A ²⁶	31%
Attained a living wage ²⁷	N/A ²⁸	50%

Top Employers and Work Locations

Between January 1, 2015 and December 31, 2017, the top two employers in San Diego County for this occupation were **South Bay Ford** and **North County Equipment Inc.** (Exhibit 9).

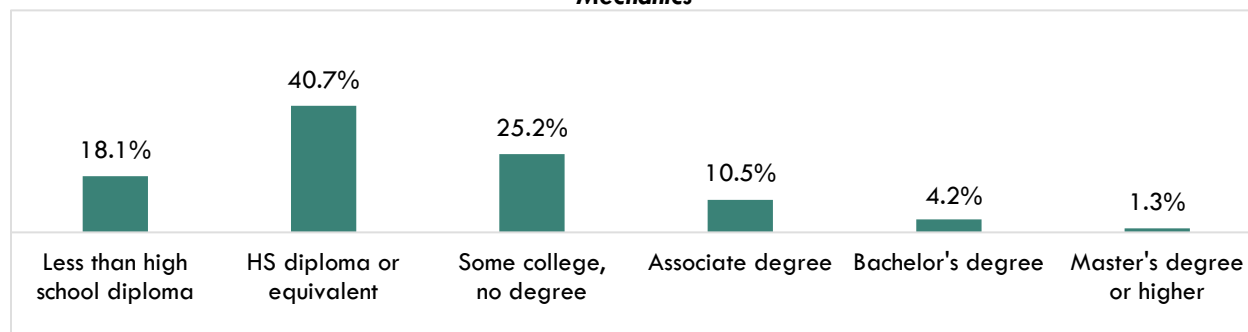
Exhibit 9: Top Industries and Employers in San Diego County for *Outdoor Power Equipment and Other Small Engine Mechanics*

Top Employers	Top Industries
<ul style="list-style-type: none"> • South Bay Ford • North County Equipment Inc. 	<ul style="list-style-type: none"> • Executive, Legislative, and Other Government Support • Automotive Parts, Accessories, and Tire Stores

Skills, Education and Certifications

Exhibit 10 indicates the educational attainment for the occupation found currently in the national labor force. The typical on-the-job training for this occupation is **moderate-term on-the-job training**. The typical entry-level education is a **high school diploma or equivalent**.²⁹

Exhibit 10: National Educational Attainment of *Outdoor Power Equipment and Other Small Engine Mechanics*



²³ Among exiting students, the median second-quarter earnings one year after the year in which they exited California Community Colleges.

²⁴ Data for this metric has not been released for PY 2014-15; for PY 2013-14, there are insufficient data to calculate this metric.

²⁵ Among exiting students with a valid SSN, the percentage change in earnings one year before and one year after exiting California Community Colleges.

²⁶ There are insufficient data to calculate this metric.

²⁷ Among completers and skills-builders who exited, the proportion of students who attained a living wage.

²⁸ There are insufficient data to calculate this metric.

²⁹ EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

Exhibit 11 lists the top specialized, soft and software skills that appeared in online job postings between January 1, 2015 and December 31, 2017.

Exhibit 11: Top Skills for Outdoor Power Equipment and Other Small Engine Mechanics in San Diego County³⁰

Specialized Skills	Soft Skills	Software Skills
<ul style="list-style-type: none"> • Small Engine Repair • Repair • Welding • Machinery • Schematic Diagrams 	<ul style="list-style-type: none"> • Troubleshooting • English • Computer Skills 	<ul style="list-style-type: none"> • None listed

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³⁰ Labor Insight Jobs. Burning Glass Technologies. San Diego, CA. Full years 2015-2017.