

# Automotive Glass Installers and Repairers Labor Market Analysis: San Diego County

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January 2018

## Summary

The following list summarizes findings from the labor market analysis below for *Automotive Glass Installers and Repairers*:

- Between 2016 and 2021, *Automotive Glass Installers and Repairers* are projected to increase by 19 jobs (or 18 percent) in San Diego County.
- Employers in San Diego County will need to hire 15 workers annually to fill new jobs and to backfill jobs due to attrition such as retirement or turnover.
- There were no online job postings for *Automotive Glass Installers and Repairers* from 2010 to 2017.
- Automotive Glass Installers and Repairers earn median hourly earnings of \$15.20, 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, three colleges supply the region with an annual average of 48 awards for this occupation: San Diego Continuing Education, Imperial Valley College and Palomar College.
- Comparing the labor demand with labor supply, there is an oversupply for this occupation in San Diego County, with 15 annual openings and 48 awards. Comparatively, there are 222 annual openings in California and 391 completions.
- 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.

## Introduction

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

**Automotive Glass Installers and Repairers (SOC 49-3022):** Replace or repair broken windshields and window glass in motor vehicles. Sample reported job titles include:

- Glass Installer
- Windshield Installer
- Automotive Glass Installer (Auto Glass Installer)
- Windshield Repair Technician
- Automotive Glazier (Auto Glazier)
- Automotive Glass Technician (Auto Glass Technician)
- Master Automotive Glass Technician (Master Auto Glass Technician)
- Glass Technician/Installer
- Glass Installer Technician

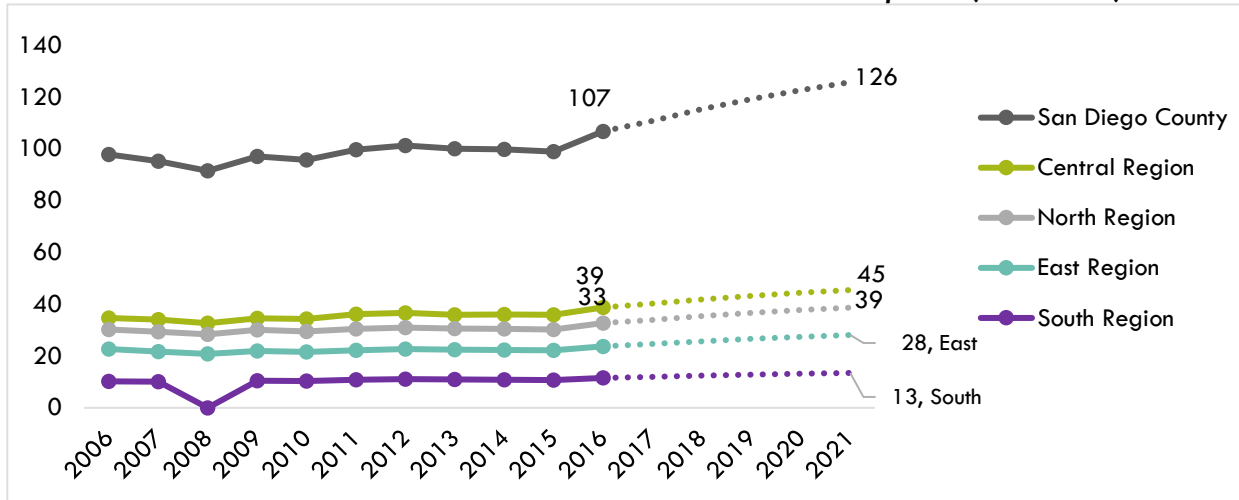
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<sup>1</sup> The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating or disseminating data. [bls.gov/soc](http://bls.gov/soc).

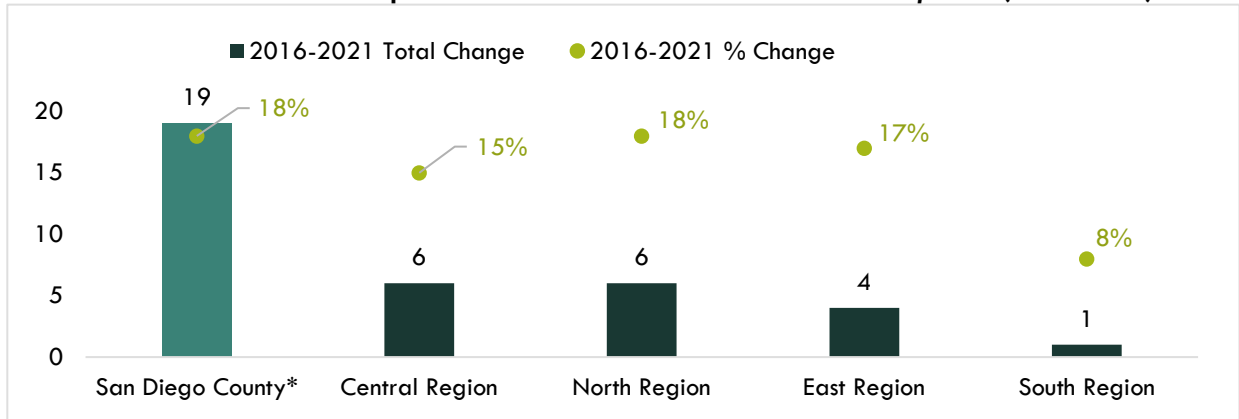
## Projected Occupational Demand

Between 2016 and 2021, *Automotive Glass Installers and Repairers* are projected to increase by 19 jobs (or 18 percent) in San Diego County (Exhibit 1a and Exhibit 1b).<sup>2</sup>

**Exhibit 1a: Number of Jobs for Automotive Glass Installers and Repairers (2006-2021)<sup>3</sup>**



**Exhibit 1b: Five-Year Projections for Automotive Glass Installers and Repairers (2016-2021)<sup>4</sup>**



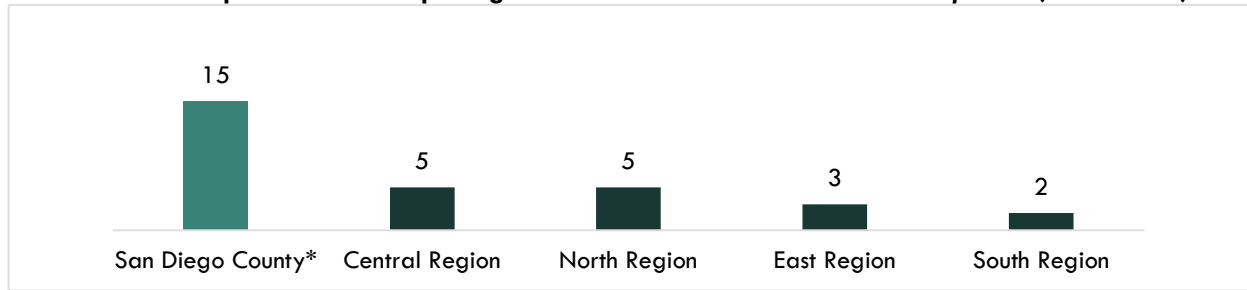
Employers in San Diego County will need to hire 15 workers annually to fill new jobs and backfill jobs due to attrition such as retirement or turnover (Exhibit 2). The most demand will be in the Central Region.

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

<sup>3</sup> Economic Modeling Specialists, Int'l. (EMSI). San Diego County (6073). 2017.03 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2006-2021.

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

**Exhibit 2: Projected Annual Openings for Automotive Glass Installers and Repairers (2016-2021)<sup>5</sup>**



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

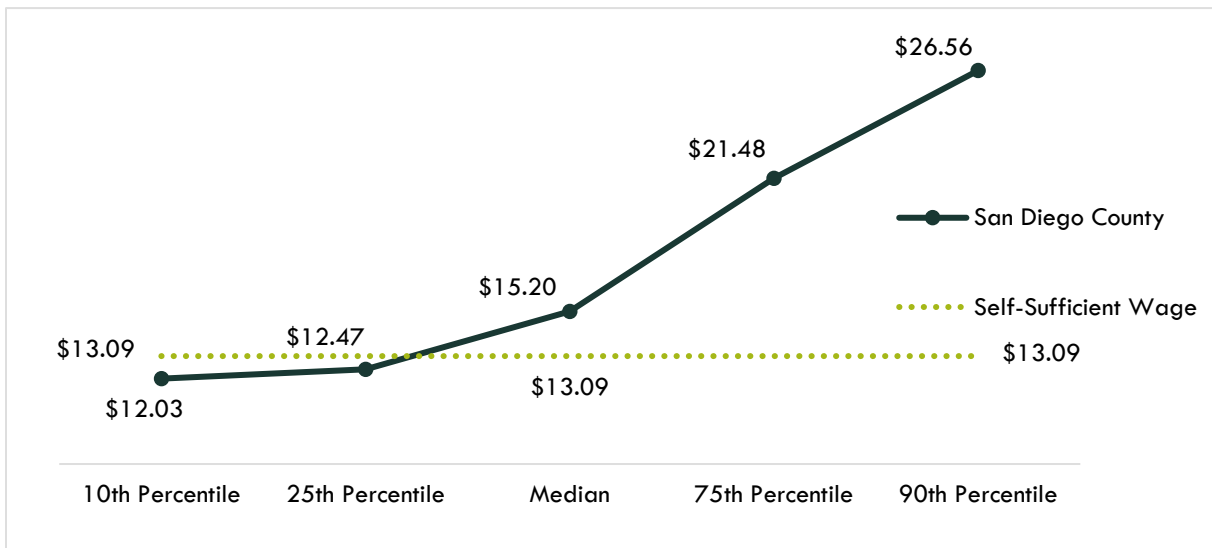
## Online Job Postings

There were no online job postings for *Automotive Glass Installers and Repairers* from 2010 to 2017.<sup>6</sup>

## Earnings

*Automotive Glass Installers and Repairers* earn median hourly earnings of **\$15.20**, more than the self-sufficiency wage (\$13.09 per hour)<sup>7</sup> for a single adult in San Diego County (Exhibit 3).

**Exhibit 3: Hourly Earnings for Automotive Glass Installers and Repairers in San Diego County<sup>8</sup>**



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

<sup>6</sup> Labor Insight Jobs. Burning Glass Technologies. San Diego, CA. Full years 2010-2017.

<sup>7</sup> The self-sufficiency wage in San Diego for one adult is \$13.09 ([insightccd.org/tools-metrics/self-sufficiency-standard-tool-for-california](https://insightccd.org/tools-metrics/self-sufficiency-standard-tool-for-california)).

<sup>8</sup> EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.

## 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 4 lists the Taxonomy of Programs (TOP) code(s) related to the SOC code analyzed.

### Exhibit 4: Related TOP Codes in San Diego County

#### SOC 49-3022: Automotive Glass Installers and Repairers

TOP 094900: Automotive Collision Repair

According to the California Community Colleges Chancellor's Office Management Information System (MIS) Data Mart, **three** colleges supply the region with an annual average of **48** awards for this occupation: **San Diego Continuing Education, Imperial Valley College and Palomar College** (Exhibit 5).

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 5: 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)
094900	Automotive Collision Repair	<b>48</b>	<b>48</b>	<b>0</b>
	<ul style="list-style-type: none"> <li>San Diego Continuing Education</li> </ul>		45	
	<ul style="list-style-type: none"> <li>Imperial Valley College</li> </ul>		0	
	<ul style="list-style-type: none"> <li>Palomar College</li> </ul>		3	

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

## Demand vs. Supply

Comparing the labor demand (annual openings) with labor supply<sup>9</sup> from the region's colleges, there is an **oversupply** for this occupation in San Diego County, with 15 annual openings and 48 awards.

Comparatively, there are 222 annual openings in California and 391 completions.<sup>10</sup>

### Exhibit 6: 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	15	48	33
California	222	391	169

**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 who 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,<sup>11</sup> students who took courses in the related TOP codes exhibited the following outcomes (Exhibit 7).

### Exhibit 7: Strong Workforce Program Metrics for 094900 Automotive Collision Repair vs. All Programs in San Diego-Imperial Region (PY2014-15)

Metric	TOP 094900	All Programs
Number of course enrollments <sup>12</sup>	329	1,009,712
Number of students who got a degree or certificate <sup>13</sup>	41	17,536
Number of students who transferred <sup>14</sup>	1	6,269
Employed in the second fiscal quarter after exit <sup>15</sup>	60%	66%
Employed in the fourth fiscal quarter after exit <sup>16</sup>	63%	65%

<sup>9</sup> 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.

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

<sup>11</sup> [calpassplus.org/LaunchBoard/SWP.aspx](http://calpassplus.org/LaunchBoard/SWP.aspx).

<sup>12</sup> The number of enrollments in courses assigned to the TOP code in the selected year.

<sup>13</sup> 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.

<sup>14</sup> 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.

<sup>15</sup> Among all exiters with a valid SSN, the percentage who were employed two quarters after exiting California Community Colleges.

<sup>16</sup> Among Exiting students with a valid SSN, the percentage who were employed four quarters after exiting California Community Colleges.

Metric	TOP 094900	All Programs
Job closely related to field of study <sup>17</sup>	N/A	N/A <sup>18</sup>
Median earnings in the second fiscal quarter after exit <sup>19</sup>	\$7,044	\$9,134
Median change in earnings <sup>20</sup>	60%	31%
Attained a living wage <sup>21</sup>	51%	50%

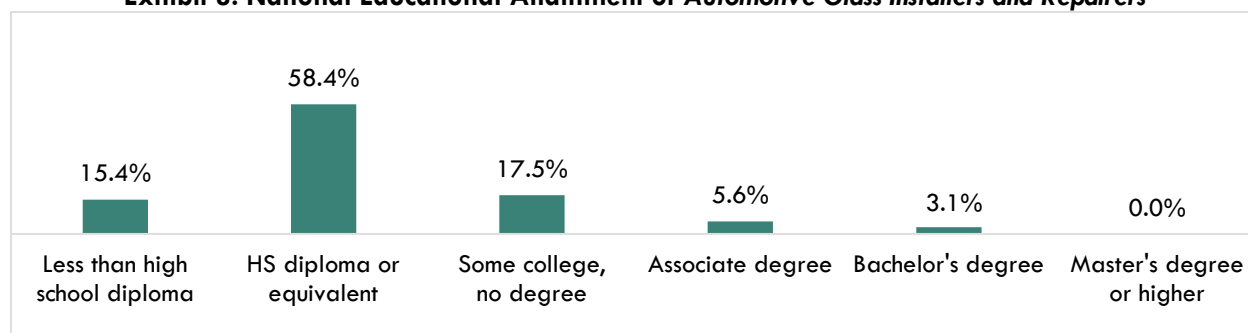
## Top Employers

Because there were no online job postings between 2010 and 2017, no employers were identified for this report.<sup>22</sup>

## Skills, Education and Certifications

Exhibit 8 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*.<sup>23</sup>

**Exhibit 8: National Educational Attainment of Automotive Glass Installers and Repairers**



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<sup>17</sup> Among students who responded to the CTEOS, the percentage reporting employment in the same or similar field as their program of study.

<sup>18</sup> Data for this metric has not been released for PY2014-15; however, in PY2013-14, the result was 81%.

<sup>19</sup> Among exiting students, the median second-quarter earnings one year after the year in which they exited California Community Colleges.

<sup>20</sup> Among exiting students with a valid SSN, the percentage change in earnings one year before and one year after exiting California Community Colleges.

<sup>21</sup> Among completers and skills-builders who exited, the proportion of students who attained a living wage.

<sup>22</sup> Labor Insight Jobs. Burning Glass Technologies. San Diego, CA. Full years 2015-2017.

<sup>23</sup> EMSI. San Diego County (6073). 2017.04 Class of Worker. QCEW + Non-QCEW + Self-Employed. 2016-2021.