

Labor Market Assessment:

Electricians

(TOP 0952.20 Electrical)

(CIP 46.0302 Electrician)

Inland Empire/Desert Center of Excellence, June 2026

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FOR LABOR MARKET RESEARCH

INLAND EMPIRE/DESERT

Summary

Program LMI Endorsement

All LMI Criteria Met

Some LMI Criteria Met
(Proceed with Caution)

LMI Criteria NOT Met



Program LMI Endorsement Criteria		
Supply Gap	Yes ☐	No ☒
	<i>Comments:</i> There is <i>projected</i> to be 861 annual job openings throughout the Inland Empire/Desert region, which is less than the 1,034 annual average awards conferred by educational institutions over the last 3 years . Supply data includes both community college awards (62) and non-community college awards (972).	
Living Wage	Yes ☒	No ☐
	<i>Comments:</i> This occupation has entry-level hourly wages \$3 above the IE/D living wage of 20.42¹ .	
Education	Yes ☒	No ☐
	<i>Comments:</i> This occupation does not have some college or postsecondary degree or associate degree as its typical entry-level education level . However, more than 33% of all workers in the field (45%) have completed some college or an associate degree as their highest level of education . See Exhibit 9 for more details.	

The Inland Empire/ Desert (IE/D) Center of Excellence for Labor Market Research (IE/D COE) reviewed the following occupations to prepare this report:

- Middle-Skill (typically require training/education above a HS diploma but less than a bachelor's degree)
 - Electricians (47-2111)

Summary of findings

Demand

- The number of jobs related to the assessed occupation is projected to increase 3% through 2029, with 861 annual job openings (new and replacement jobs).
- Hourly entry-level wages for electricians are above living wage at the 25th percentile hourly wage, estimated to be \$23.53 in IE/D.
- There were 493 online job postings from 232 employers over the past 12 months with the highest postings for electricians and journeyman electricians.
- Most job postings for target occupations require a high school diploma or equivalent (94%), followed by an associate degree (6%).

Supply

- On average, there were 1,034 annual awards conferred by educational institutions over the last 3 years in related fields: 62 from community colleges and 972 from other institutions (e.g., 4-year universities, private schools).
- IE/D community college students that exited these programs in the 2023-24 academic year earned a median annual wage of \$49,292 (\$23.70 per hour).
- 61% of students that exited their program in 2023-24 reported that they are now earning a living wage.

¹ The [UW self-sufficiency standard](#) is currently used by the CO and other COEs, the self-sufficiency standard was last updated by UW in 2024.

Introduction

California Community College Electrical (TOP 0952.20) programs prepare students for employment Installation, operation, maintenance and repair of electrical systems in buildings, including residential, commercial, and industrial electric power wiring and motors, controls, and electrical-distribution panels (Taxonomy of Programs, 2023). The knowledge, skills, and abilities trained by Electrical programs lead to employment in electricians.

Job Demand

In 2024, there were 9,125 electrician jobs in the IE/D region. Regional employment for this occupation is projected to increase by 3% through 2029 with 861 job openings projected annually. Exhibit 1 displays the job count, five-year projected job growth, and job openings in the region.

Exhibit 1. Five-year projections for electricians, IE/D Region, 2024-2029

Occupation	SOC	2024 Jobs	2029 Jobs	2024 - 2029 % Change	5-Yr Openings (New + Replacement Jobs)	Annual Openings (New + Replacement Jobs)
Electricians	47-2111	9,125	9,412	3%	4,305	861

SOURCE: LIGHTCAST 2026.2

Job Postings

The following analysis for electricians using online job posting data.

Important note: The data produced in this section were generated by leveraging online job posting data sourced from Lightcast, which is the labor market analytics software tool COEs use to produce these briefs. The job posting data is collected from scraping online job boards such as LinkedIn, Indeed, Glassdoor and many others. The process Lightcast uses to assemble this data does have some limitations due to methods that recruitment professionals sometimes use (e.g., posting one job to fill multiple positions). For example, the number of jobs posted is not necessarily the same as the number of job vacancies.² While not perfect, Lightcast leverages machine learning and other AI technologies to enrich, de-duplicate and aggregate this information to make it a meaningful dataset.

Exhibit 2 displays the number of job ads posted for electricians over the last 12 months and the median posting duration. Over the previous 12 months, there were 232 unique job postings for electricians in the region from 493 employers.

Exhibit 2. Job ads and posting duration, IE/D Region, Jun 2025 – May 2026

Job Title	Job Ads	Median Posting Duration
Electricians	493	29 days

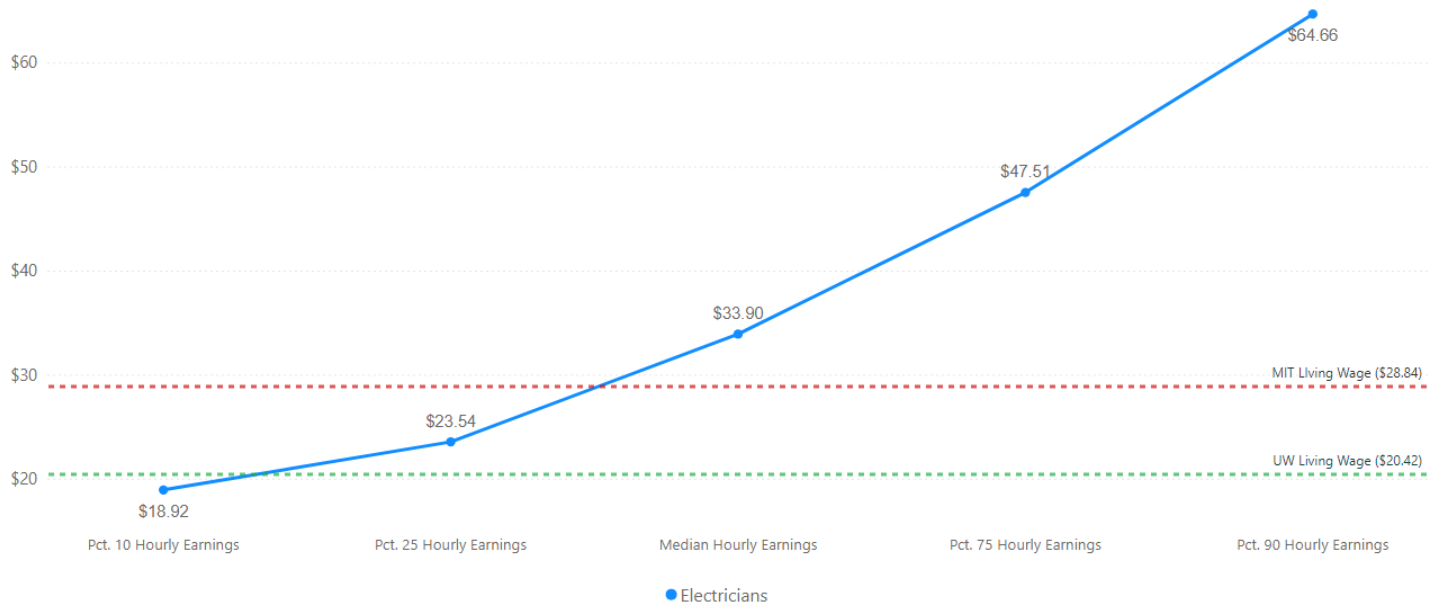
SOURCE: LIGHTCAST 2026.2

² "Job Posting Analytics (JPA) Methodology." Lightcast Knowledge Base, <https://kb.lightcast.io/en/articles/6957446-job-posting-analytics-jpa-methodology>

Earnings

Exhibit 3 displays the hourly earnings for electricians compared to both the UW Self-Sufficiency Standard for the IE/D of \$20.42³ and the MIT IE/D living wage of \$25.73.⁴

Exhibit 3. Projected hourly earnings by percentile, IE/D Region, 2024



SOURCE: 2026.2

The projected entry-level earnings (that is, the earnings of the lowest paid 25% of employees in the IE/D) for electricians are above the UW Self-Sufficiency Standard for the IE/D (see Exhibit 3). However, this occupation was below the MIT living wage for an adult with no children (\$28.84) in projected entry-level earnings (see Exhibit 3).

³ The [UW self-sufficiency standard](#) is currently used by the CO and other COEs, the self-sufficiency standard was last updated by UW in 2024. To provide an alternative perspective, the COE will provide an alternative living wage calculation from MIT in the analysis below as an additional reference point. MIT estimates, the living wage for an adult with no kids living in 2024 is \$26.30 in Riverside County and \$25.17 in San Bernadino County.

⁴ *ibid.*

Advertised Salary from Online Job Ads

Exhibit 4 displays the regional online advertised salaries for the electricians over the last 12 months. The salary information of online job ad data suggests employers advertise entry level hourly wages equal to \$30.40 (estimated to be equal to an annual salary of \$63,232).

Exhibit 4. Hourly earnings of job postings by percentile, IE/D Region, Jun 2025 – May 2026



SOURCE: LIGHTCAST 2026.2

Online Job Advertisements: top job titles, skills, education & work experience.

Exhibit 5 displays the job titles most frequently used in job postings for the electricians over the last 12 months. Assessing the top advertised job titles may provide insight into the types of positions sought by employers.

Exhibit 5. Job titles most frequently used in job ads, IE/D Region, Jun 2025 – May 2026

Job Title	Unique Postings
Electricians	110
Journeyman Electricians	31
Commercial Electricians	18
Maintenance Electricians	18
Certified Electricians	12
Facilities Electricians	12
Certified Journeyman Electricians	9
Electrical Technicians	9
Industrial Electricians	9
Licensed Electricians	9

SOURCE: LIGHTCAST 2026.2

Exhibit 6 displays the employers posting the most job ads for this occupational group during the last 12 months. Showing employer names can provide insight into where students may find employment after completing a program and may inform job development and other employer engagement targets for faculty and staff involved in related programs. Sitelogiq and Sunrun had the highest unique job posts for this occupational group in the last 12 months. Posting intensity is the ratio of total job posts to unique job posts which are de-duplicated. A higher posting intensity can represent the level of effort and activity the organization is putting into hiring for that position. The following report comes directly from Lightcast's Job Posting Analytics dashboard.

**Exhibit 6. Employers posting the most job ads,
IE/D Region, Jun 2025 – May 2026**

Company	Total/Unique (Jun 2025 - May 2026)	Posting Intensity	Median Posting Duration
Sitelogiq	10 / 7	1 : 1 	37 days
Sunrun	27 / 6	5 : 1 	24 days
Alamon	16 / 6	3 : 1 	12 days
Alaka `Ina	11 / 6	2 : 1 	24 days
Livehappy Hypnotherapy	9 / 5	2 : 1 	13 days
Oshkosh Aerotech	9 / 5	2 : 1 	27 days
Tesla	10 / 5	2 : 1 	18 days
Albd Electric And Cable	5 / 5	1 : 1 	n/a
State of California	5 / 5	1 : 1 	18 days
Champion Electric	5 / 5	1 : 1 	53 days

SOURCE: LIGHTCAST 2026.2

Exhibit 7 displays the top common, specialized and computer skills that were included in the job postings over the last 12 months. Today's demand is an important indicator of which skills employers are looking for in the current market. Analyzing skills from a historical perspective as well as projecting the future needs of employers may provide insight into how the job posting skills demand compares to the market as a whole. Rapidly growing skills are those that are increasing in demand at a faster rate than the market as a whole.⁵

**Exhibit 7. Top 10 in-demand skills from employer job ads,
IE/D Region, Jun 2025 – May 2026**

Common skills	Total Postings	Skill Growth Relative to Market
Troubleshooting (Problem Solving)	248	Growing
Communication	128	Stable
Operations	74	Stable
Customer Service	66	Stable
Detail Oriented	64	Stable
Problem Solving	60	Growing
Management	46	Stable
Computer Literacy	32	Lagging
English Language	32	Growing
Professionalism	23	Growing

⁵ "What are Lightcast Skill Projects", Lightcast Knowledge base, <https://kb.lightcast.io/en/articles/8496296-what-are-lightcast-skill-projections>

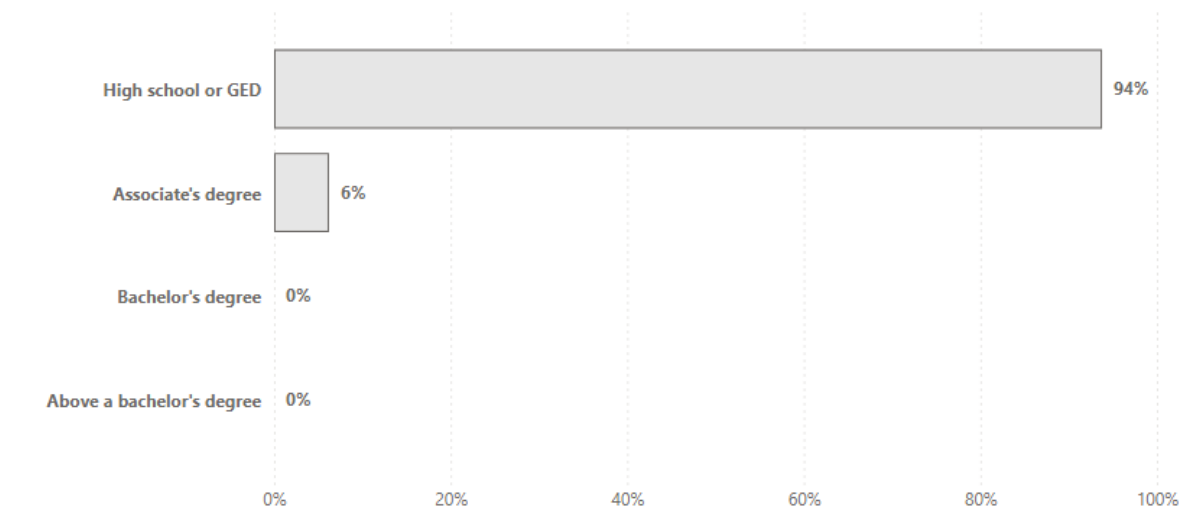
Specialized skills	Total Postings	Skill Growth Relative to Market
Electrical Systems	203	Growing
Electrical Wiring	184	Growing
Blueprinting	143	Rapidly Growing
Electrical Equipment	116	Stable
Transformers (Electrical)	103	Stable
Preventive Maintenance	86	Growing
Lifting Ability	67	Growing
Power Tool Operation	67	Growing
Lighting Systems	40	Lagging
Switchgear	40	Growing
Circuit Breakers	29	Growing
Plumbing	29	Growing
Working at Heights	29	Growing

Computer Skills	Total Postings	Skill Growth Relative to Market
Inventory Management System	21	Growing
Microsoft Office	14	Growing
Microsoft Excel	12	Growing
Microsoft PowerPoint	9	Rapidly Growing
Microsoft Outlook	8	Rapidly Growing
AutoCAD	5	Growing
Microsoft Word	5	Stable
IBM Maximo	4	Stable
Spreadsheets	4	Growing
Azure Blueprints	3	Stable
Dashboard	3	Rapidly Growing
Disassembler	3	Growing
Microsoft Project	3	Lagging
SAP Applications	3	Rapidly Growing
Zoom (Video Conferencing Tool)	3	Growing

SOURCE: LIGHTCAST 2026.2

Exhibit 8 includes the minimum educational requirements from job postings for this occupational group with high school diploma or equivalent (94%) significantly greater than associate degree (6%).

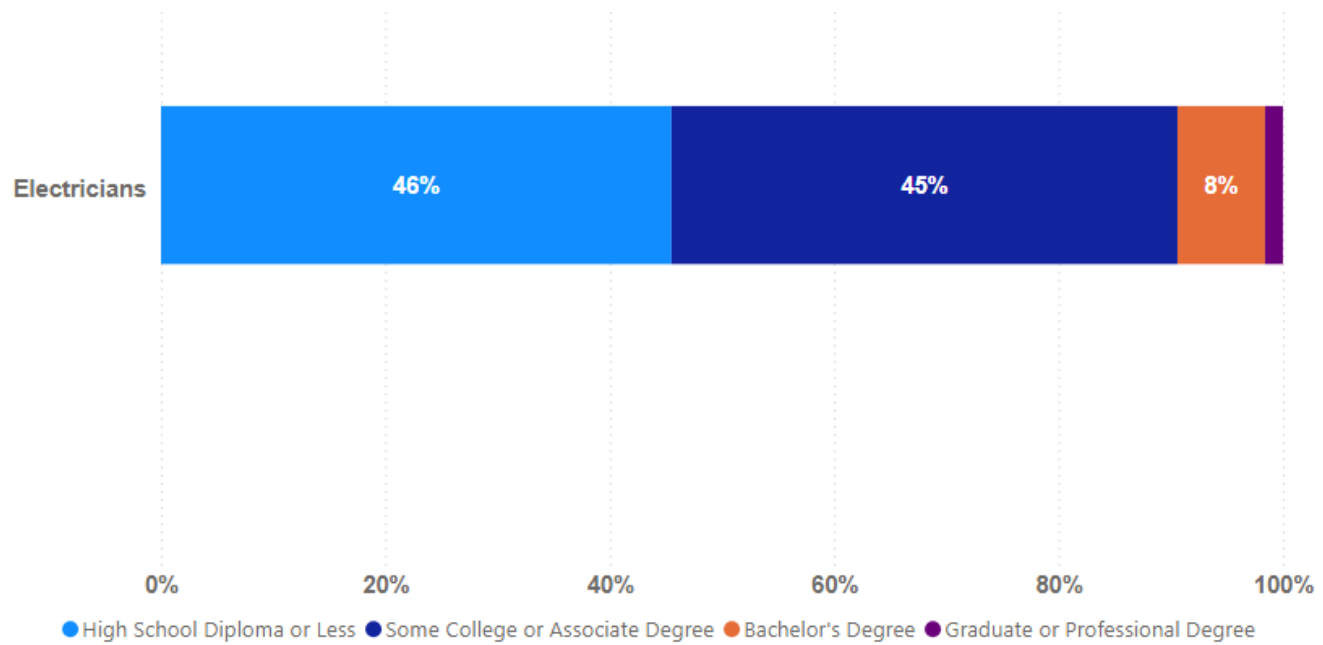
Exhibit 8 Minimum educational requirements in job postings for this occupational group, IE/D Region, Jun 2025 – May 2026



SOURCE: LIGHTCAST 2026.2

The Bureau of Labor Statistics (BLS) education attainment data in Exhibit 9 for current professionals in the occupation of interest indicates that between 45% of workers have completed some college or an associate degree as their highest level of education.

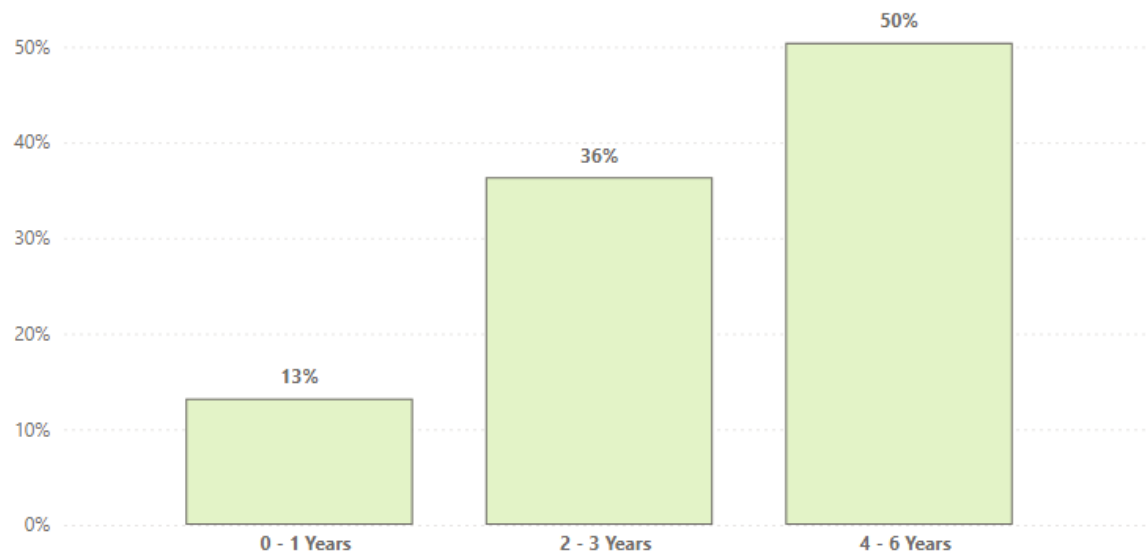
Exhibit 9 National-level Education Attainment for the Occupational Group



SOURCE: BLS 2021

Exhibit 10 displays the work experience typically required from employer job ads for this occupational group. The majority (50%) of employers listing minimum experience requirements sought candidates with 4-6 years of previous work experience.

Exhibit 10 Work experience requirements, IE/D Region, Jun 2025 – May 2026



SOURCE: LIGHTCAST 2026.2

Student Completions and Program Outcomes

Exhibit 11 displays student completions for the Electrical (TOP 0952.20) programs over the last three academic years (2022-2025). In the previous three academic years, one regional community college issued an average of 62 awards in relevant programs.

Exhibit 11 Annual average community college awards for Electrical (TOP 0952.20), IE/D, 2022-2025

Top Code	Program	College	2022-2023 Awards	2023-2024 Awards	2024-2025 Awards	3-Year Award Average
0952.20	Electrical	Norco	61	54	72	62

SOURCE: MIS DATA MART

Non-Community College Supply

Exhibit 12 displays award completion data available for these IE/D non-community college programs: Electricians (CIP 46.0302).

In the previous three academic years, nine regional non-community college institutions issued an average of 972 awards in relevant programs.

Exhibit 12 Annual average non-community college awards for electrician programs, IE/D, 2021-2024

CIP	Program	College	2021-2022 Awards	2022-2023 Awards	2023-2024 Awards	3-Year Award Average
46.0302	Electrician	CET-Colton	4	20	58	27
46.0302	Electrician	InterCoast Colleges-Riverside	70	34	45	50
46.0302	Electrician	San Joaquin Valley College-Hesperia	0	45	77	41
46.0302	Electrician	San Joaquin Valley College-Ontario	126	172	256	185
46.0302	Electrician	San Joaquin Valley College-Rancho Mirage	0	0	29	10
46.0302	Electrician	San Joaquin Valley College-Temecula	129	165	189	161
46.0302	Electrician	Summit College	238	260	313	270
46.0302	Electrician	UEI College-Ontario	0	0	85	28
46.0302	Electrician	UEI College-Riverside	119	215	268	201
Total			686	911	1320	972

SOURCE: IPEDS

Strong Workforce Program Outcomes

California SWP program outcome data may provide useful insight into the likelihood of success for the proposed program. Community college student outcome information based on the selected TOP code and region is provided in Exhibit 13.

Exhibit 13 Electrical strong workforce program outcomes, IE/D & California, AY 2023-24

Program Metric Title	Inland Empire	Statewide
Students	832	9,576
Earned 9+ Career Education Units	36%	36%
Completed Noncredit Workforce Preparation Milestone	59%	24%
Earned an Award: Degree or Cert or Attained Appren. Journey Level Status	4%	10%
Transferred to a Four-Year Institution: Four-Year Postsecondary Institution	-	0%
Median Annual Earnings	\$49,292	\$58,520
Median Change in Earnings	46%	63%
Attained Living Wage	61%	60%

SOURCE: DATAVIST

Appendix: Methodology

Exhibit 11 displays the average annual California Community College (CCC) awards conferred during the three academic years between 2022 and 2025 from the California Community Colleges Chancellor's Office Management Information Systems (MIS) Data Mart. Awards are the combined total during the timeframe, divided by three in this case to calculate an annual average. This is done to minimize the effect of atypical variations that might be present in a single year.

Community college student outcome information is from DataVista and based on the selected TOP code and region. These metrics are based on records submitted to the California Community Colleges Chancellor's Office Management Information Systems (MIS) by community colleges, which come from self-reported student information from CCC Apply and the National Student Clearinghouse. Employment and earnings metrics are sourced from California's Employment Development Department's Unemployment Insurance database. When available, outcomes for completers are reported to demonstrate the impact that earning a degree or certificate can have on employment and earnings. For more information on the types of students included for each metric, please see the web link for DataVista's Strong Workforce Program Metrics Data Element Dictionary in the Resources section (DataVista, 2025).

Appendix: References

Type of Data	Source
Occupational Projections, Wages, and Job Postings	Traditional labor market information data is sourced from Lightcast, a labor market analytics firm. Lightcast occupational employment data are based on final Lightcast industry data and final Lightcast staffing patterns. Wage estimates are based on Occupational Employment. https://lightcast.io/
Living Wage (UW)	Center for Women's Welfare, University of Washington. (2024). The self-sufficiency standard for California 2024. http://www.selfsufficiencystandard.org/California . The COE refers to the Self-Sufficiency Wage as a "living wage." This calculation measures the income necessary for an individual of family to afford basic expenses. The data assesses the cost of housing, food, childcare, health care, transportation, and taxes. The living wage for one adult in San Bernardino County is \$20.07 per hour (\$57,408 annually). The living wage for one adult in Riverside County is \$20.76 per hour (\$43,854 annually). The average of the two, \$20.42 per hour (\$42,474 annually), is used to represent the Inland Empire/Desert living wage.
Living Wage (MIT)	<i>Living wage data sourced from the Living Wage Institute via</i> https://livingwage.mit.edu/counties/06065 ; https://livingwage.mit.edu/counties/06071 , Accessed on June 6, 2026. The living wage is derived from MITs Living Wage Calculator, which measures the income necessary for an individual of family to afford basic expenses. The data assesses the cost of housing, food, childcare, health care, transportation, and taxes. For more information, see: https://livingwage.mit.edu/pages/methodology . The living wage for one adult in San Bernardino County is \$27.60 per hour (\$52,353.60 annually). The living wage for one adult in Riverside County is \$28.84 per hour (\$59,987 annually). The higher of the two, \$28.84 per hour (\$59,987 annually), is used to represent the Inland Empire/Desert living wage.
Typical Education and Training Requirements, and Educational Attainment	The Bureau of Labor Statistics (BLS) provides information about education and training requirements for hundreds of occupations. BLS uses a system to assign categories for entry-level education, work experience in a related occupation, and typical on-the-job training to each occupation for which BLS publishes projections data. For more information, see https://www.bls.gov/emp/documentation/education/tech.htm

Educational Supply	The CCCC Data Mart provides information about students, courses, student services, outcomes and faculty and staff. For more information, see: https://datamart.cccco.edu The National Center for Education Statistics (NCES) Integrated Postsecondary Integrated Data System (IPEDS) collects data on the number of postsecondary awards earned (completions). For more information, see https://nces.ed.gov/ipeds/use-the-data/survey-components/7/completions
Student Metrics and Demographics	DataVista aims to provide up-to-date and useful information on students within the California Community Colleges and its Adult Education partners. DataVista is a modernization of the supporting architecture and visualization of metrics previously available on the LaunchBoard. DataVista is a collaboration between the California Community Colleges Chancellor's Office and WestEd, see: https://datavista.cccco.edu/data_views/swp_report