

Program Endorsement Brief: 1009.00/Applied Design

Jewelry: Entrepreneurship

Los Angeles/Orange County Center of Excellence, January 2020

Summary Analysis

The Los Angeles/Orange County Center of Excellence for Labor Market Research (COE) prepared this report to provide Los Angeles/Orange County regional labor market supply and demand data related to one middle-skill occupation: jewelers and precious stone and metal workers (51-9071). Middle-skill occupations typically require some postsecondary education, but less than a bachelor's degree.¹ This report is intended to help determine whether there is demand in the local labor market that is not being met by the supply from community college programs that align with the relevant occupation.

Since it is difficult to quantify the demand for self-employed individuals using traditional labor market information, and employer job postings do not provide insight into entrepreneurs (as job posting information applies to traditional employers and employees), **the COE recommends further research on this proposed program.**

Demand:

- Over the next five years, there is projected to be **255 jobs available annually** in the region due to replacements and workers leaving the field.
 - Self-employment represents about a quarter of projected annual openings, with 65 job openings projected annually in the region.
- Over the past 12 months, there were **55 online job postings** related to jewelers and precious stone and metal workers.
 - Of the 13% of jewelers and precious stone and metal worker job postings listing a minimum education requirement in Los Angeles/Orange County, all (7) requested a high school diploma.
- The national-level educational attainment data indicates 35% of workers in the field have completed some college or an associate degree.
- Typical **entry-level hourly wage** for jewelers and precious stone and metal workers throughout the region is **\$12.33, which is lower than the California Family Needs Calculator** hourly wage for one adult in the region (\$15.04 in Los Angeles County and \$17.36 in Orange County)².
 - Experienced jewelers and precious stone and metal workers throughout the region can expect to earn \$23.02, which is higher than the California Family Needs Calculator hourly wage estimate for both counties.

¹ The COE classifies middle-skill jobs as the following:

- All occupations that require an educational requirement of some college, associate degree or apprenticeship;
- All occupations that require a bachelor's degree, but also have more than one-third of their existing labor force with an educational attainment of some college or associate degree; or
- All occupations that require a high school diploma or equivalent or no formal education, but also require short- to long-term on-the-job training where multiple community colleges have existing programs.

² Living wage data was pulled from California Family Needs Calculator on 1/13/20. For more information, visit the California Family Needs Calculator website: <https://insightccd.org/2018-family-needs-calculator/>.

Supply:

- **One community college** in the region has an applied design program that conferred **one award** between 2015 and 2018.
 - **Historically, jewelry programs are classified under Jewelry (1009.10), which is non-CTE.**

Occupational Demand

Exhibit 1 shows the five-year occupational demand projections for self-employed and all jewelers and precious stone and metal workers (employed and self-employed). In Los Angeles/Orange County, the number of jobs for jewelers and precious stone and metal workers is projected to decrease by 6% through 2023. The number of new self-employed jewelers and precious stone and metal workers is projected to decrease by 15% through 2023. Despite this, there will be approximately 255 total job openings per year through 2023 due to replacements and workers leaving the field. About a quarter (65) of the 255 total job openings for this occupation are for self-employed individuals.

Exhibit 1: Occupational demand in Los Angeles and Orange Counties³

| Employment Type | Geography | 2018 Jobs | 2023 Jobs | 2018-2023 Change | 2018-2023 % Change | Annual Openings |
|------------------------|------------------------|------------------|------------------|-------------------------|---------------------------|------------------------|
| Self-Employed | Los Angeles | 504 | 428 | (76) | (15%) | 49 |
| All Workers | Los Angeles | 1,956 | 1,836 | (120) | (6%) | 200 |
| Self-Employed | Orange | 163 | 142 | (21) | (13%) | 16 |
| All Workers | Orange | 513 | 497 | (16) | (3%) | 55 |
| Self-Employed | Combined Region | 667 | 570 | (97) | (15%) | 65 |
| All Workers | Combined Region | 2,469 | 2,332 | (137) | (6%) | 255 |

³ Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

Wages — Typical entry-level and median hourly wages for jewelers and precious stone and metal workers throughout the region are between \$12.33 and \$17.77, respectively.⁴ Entry-level wages for this occupation are lower than the California Family Needs Calculator hourly wage for one adult in the region (\$15.04 in Los Angeles County and \$17.36 in Orange County). Experienced workers can expect to earn \$23.02, which is higher than the California Family Needs Calculator wage estimates for both counties. Wage information, by county, is included in Appendix A.

Job Postings — There were 55 online job postings related to jewelers and precious stone and metal workers listed in the past 12 months. The highest number of job postings were for jeweler, bench jeweler, jewelry maker, and diamond setter. The top employers, by number of job postings, in the region were: Robbins Brothers, Dana Augustine, Inc., and Fast-Fix Jewelry and Watch Repairs. Of the 55 online job postings, 13% list a minimum education requirement.

Educational Attainment — The Bureau of Labor Statistics (BLS) lists a high school diploma or equivalent as the typical entry-level education for jewelers and precious stone and metal workers. The national-level educational attainment data indicates 35% of workers in the field have completed some college or an associate degree. Of the 13% of jewelers and precious stone and metal worker job postings listing a minimum education requirement in Los Angeles/Orange County, all (7) requested a high school diploma.

Supply

Community College Supply — The Jewelry (TOP 1009.10) program is the most relevant for jewelers and precious stone and metal workers. However, this program is not a career and technical education (CTE) program. **Santa Ana College is one of five community colleges in the state that offer a jewelry program – college conferred one award in 2015-16.**

The career and technical education program that provides training most closely associated with jewelry is the Applied Design (TOP 1009.00) program. Compton College is the only regional college to confer an award in applied design between 2015 and 2018.

Over the past 12 months, there were no other related program recommendation requests from regional community colleges.

⁴ Entry-level wage is defined as the twenty-fifth percentile hourly wage. Wages for experienced workers are defined as the seventy-fifth percentile hourly wage.

Appendix A: Occupational demand and wage data by county

Self-employed wages may be lower than the actual minimum wage because there might not be data on what workers actually make per hour – only on their annual earnings. Since calculations divide annual figure by 2,080 working hours to calculate hourly earnings, this can skew wages.

Exhibit 2. Los Angeles County

| Employment Type | Occupation (SOC) | 2018 Jobs | 2023 Jobs | 5-Yr Change | 5-Yr % Change | Annual Openings | Entry-Level Hourly Earnings (25 th Percentile) | Median Hourly Earnings | Experienced Hourly Earnings (75 th Percentile) |
|----------------------------|---|-----------|-----------|-------------|---------------|-----------------|---|------------------------|---|
| Self-Employed | Jewelers and Precious Stone and Metal Workers (51-9071) | 504 | 428 | (76) | (15%) | 49 | \$7.27 | \$14.11 | \$25.49 |
| Employed and Self-Employed | Jewelers and Precious Stone and Metal Workers (51-9071) | 1,956 | 1,836 | (120) | (6%) | 200 | \$12.56 | \$18.02 | \$23.27 |

Exhibit 3. Orange County

| Employment Type | Occupation (SOC) | 2018 Jobs | 2023 Jobs | 5-Yr Change | 5-Yr % Change | Annual Openings | Entry-Level Hourly Earnings (25 th Percentile) | Median Hourly Earnings | Experienced Hourly Earnings (75 th Percentile) |
|----------------------------|---|-----------|-----------|-------------|---------------|-----------------|---|------------------------|---|
| Self-Employed | Jewelers and Precious Stone and Metal Workers (51-9071) | 163 | 142 | (21) | (13%) | 16 | \$7.15 | \$13.86 | \$25.04 |
| Employed and Self-Employed | Jewelers and Precious Stone and Metal Workers (51-9071) | 513 | 497 | (16) | (3%) | 55 | \$11.51 | \$16.85 | \$22.07 |

Exhibit 4. Los Angeles and Orange Counties

| Employment Type | Occupation (SOC) | 2018 Jobs | 2023 Jobs | 5-Yr Change | 5-Yr % Change | Annual Openings | Entry-Level Hourly Earnings (25 th Percentile) | Median Hourly Earnings | Experienced Hourly Earnings (75 th Percentile) |
|----------------------------|---|-----------|-----------|-------------|---------------|-----------------|---|------------------------|---|
| Self-Employed | Jewelers and Precious Stone and Metal Workers (51-9071) | 667 | 570 | (97) | (15%) | 65 | \$7.24 | \$14.05 | \$25.38 |
| Employed and Self-Employed | Jewelers and Precious Stone and Metal Workers (51-9071) | 2,469 | 2,332 | (137) | (6%) | 254 | \$12.33 | \$17.77 | \$23.02 |

Appendix B: Sources

- O*NET Online
- Labor Insight/Jobs (Burning Glass)
- Economic Modeling Specialists, International (EMSI)
- Bureau of Labor Statistics (BLS)
- Employment Development Department, Labor Market Information Division, OES
- Employment Development Department, Unemployment Insurance Dataset
- Living Insight Center for Community Economic Development
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- California Family Needs Calculator, Insight Center for Community Economic Development
- Chancellor's Office Curriculum Inventory (COCI 2.0)

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