

Labor Market Analysis: 1201.00 – Health Occupations, General Anesthesia Technology – Associate of Science (A.S.) degree; Certificate requiring 30 to <60 semester units

Los Angeles Center of Excellence, March 2024

Program Endorsement:	Endorsed: All Criteria Met <input checked="" type="checkbox"/>	Endorsed: Some Criteria Met <input type="checkbox"/>	Not Endorsed <input type="checkbox"/>
Program Endorsement Criteria			
Supply Gap:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Living Wage: (Entry-Level, 25th)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Education:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Emerging Occupation(s)			
	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

SUMMARY

This report analyzes whether local labor market demand is being met by community college programs aligned with the identified middle-skill occupations¹ or whether a shortage of workers exists. Labor market demand is measured by annual job openings while education supply is measured by the number of awards (degrees and certificates) conferred on average each year.

The Standard Occupation Classification (SOC) system has yet to establish an occupational code specifically for anesthesia technicians, and current federal occupational research classifies the anesthesia technician job title within the emerging *anesthesiologist assistants* occupation (SOC 29-1071.01). Since data collection is currently underway, traditional labor market data is not included in this report. Instead, employer job posting data from the last 12 months is utilized to approximate labor market demand.

Based on the available data, there appears to be a supply gap for the one identified middle-skill occupation in the region. According to Lightcast job postings data, the median advertised salary is \$70,912 per year and the majority of related job postings over the past year require less than a bachelor’s degree.

Recommendation: Due to all three program endorsement criteria being met, the Los Angeles Center of Excellence for Labor Market Research (LACOE) endorses this proposed program.

¹ Middle-skill occupations typically require some postsecondary education, but less than a bachelor’s degree. 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.

Key Findings

Supply Gap

- There were 211 online job postings for anesthesiologist assistants in the region over the past 12 months. This number is greater than the three-year average of 30 awards conferred by educational institutions in the region.

Living Wage

- \$70,912 was the advertised median salary for anesthesiology assistants in the region over the past 12 months.

Educational Attainment

- 89% of anesthesiologist assistant job postings requested a high school diploma (93 job postings), 10% requested an associate degree (11), and 1% requested a bachelor's degree (1).

Community college supply

- One community college issued awards related to anesthesia technology in the greater LA/OC region.
- 30 awards (degrees and certificates) were conferred on average each year between 2019 and 2022.

Other postsecondary supply

- There are currently no other educational institutions in the LA/OC region that offer programs related to anesthesia technology.

TARGET OCCUPATIONS

LA COE prepared this report to provide regional labor market and postsecondary supply data related to one middle-skill emerging occupation.

- **Anesthesiologist assistants (29-1071.01)** Assist anesthesiologists in the administration of anesthesia for surgical and non-surgical procedures. Monitor patient status and provide patient care during surgical treatment.

JOB POSTINGS

There were 211 online job postings related to anesthesiologist assistants listed in the past 12 months in Los Angeles and Orange counties. Job postings were analyzed for the most common job titles, skills, and employers associated with the target occupations in this report (Exhibit 1).

Exhibit 1: The most commonly requested job titles, skills and employers in job postings, Los Angeles and Orange counties

Top Job Titles	Top Skills	Top Employers
<ul style="list-style-type: none"> • Anesthesia technicians • Certified anesthesia technicians • Anesthesiology residents • Anesthesia technologists • Endoscopy/GI registered nurses 	<ul style="list-style-type: none"> • Anesthesiology • Surgery • Perioperative care • Operating room (OR) • Patient monitoring • Acute care 	<ul style="list-style-type: none"> • University of California • Kaiser Permanente • Providence • Keck Medical Center of USC • University of Southern California

Over the past 12 months, the median advertised salary for anesthesiologist assistants in Los Angeles/Orange County was \$70,912. About one-quarter of these job postings were for entry-level positions (0-1 year of experience), and 27% requested more experience (2-3 years). The majority of *anesthesiologist assistant* job postings (46%) did not list a minimum experience requirement.

In the greater Los Angeles/Orange County region, 50% of anesthesiologist assistant job postings listed a minimum education requirement. The number and percentage of job postings by educational level appear in Exhibit 2.

Exhibit 2: Education levels requested in job postings, Los Angeles and Orange counties

Education Level	Job Postings	% of Job Postings
Bachelor's degree	1	1%
Associate degree	11	10%
High school diploma or vocational training	93	89%

EDUCATIONAL SUPPLY

Community College Supply

Exhibit 3 shows the annual and three-year average number of awards conferred by community colleges in anesthesia-related programs. Pasadena City College is the only community college in the region has a program dedicated to anesthesia technology. According to the American Society of Anesthesia Technologists and Technicians (ASATT), the Pasadena City College/Kaiser Permanente Anesthesia Technology Program is currently the only accredited program in the region that trains for this occupation.²

² [Approved Schools - The American Society Of Anesthesia Technologists & Technicians](#)

There are 14 colleges in the LA/OC region that have health programs coded under Health Occupations, General (1201.00) or Public Health (1201.00). These programs range from introduction to health careers, public health science, integrative health and wellness, and anesthesia technology. Since no current Health Occupations, General (1201.00) programs in the region (other than Pasadena) are closely related to anesthesia technology, the total supply data from TOP Code 1201.00 is not included in this report.

For a comprehensive regional supply analysis, it is important to consider the supply from other institutions in the region that provide training programs for anesthesiologist assistants. Currently there are no programs in the region for Anesthesiologist Assistant (51.0809).

Exhibit 3: Regional community college awards (certificates and degrees), 2019-2022

TOP Code/Title	Local Program Name	College	Award Type	2019-20 Awards	2020-21 Awards	2021-22 Awards	3-Year Average
1201.00/ Health Occupations, General	Anesthesia Technology	Pasadena	A.S. Degree	10	4	19	11
			Certificate	14	20	22	19
		LA Subtotal			24	24	41
Supply Total/Average				24	24	41	30

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DATA SOURCES

- O*NET Online
- Lightcast (formerly Emsi)
- Bureau of Labor Statistics (BLS)
- California Employment Development Department, Labor Market Information Division, OES
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- Self-Sufficiency Standard at the Center for Women's Welfare, University of Washington
- Chancellor's Office Curriculum Inventory (COCI 2.0)

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