



Aeronautical Leadership and Management Aeronautical and Aviation Technology (TOP: 0950.00)

November 2021

Prepared by the South Central Coast Center of Excellence for
Labor Market Research

Program Recommendation

This report was compiled by the South Central Coast¹ Center of Excellence to provide regional labor market data for the program recommendation – Aeronautical Leadership and Management. This report can help determine whether there is demand in the local labor market that is not being met by the supply from programs of study (CCC and non-CCC) that align with this occupation group.

Key Findings

- In the South Central Coast region, the number of jobs related to Aeronautical Leadership and Management are expected to **remain steady** for First-Line Supervisors of Production and Operating Workers.
- Aeronautical Leadership and Management is anticipated to experience a **low risk of automation** for First-Line Supervisors of Production and Operating Workers.
- In 2020 there were 31 regional completions in programs related to the occupation identified as aligned with Aeronautical and Aviation Technology and 273 openings, indicating an **undersupply**.
- Typical entry-level education is a **High School Diploma or Equivalent** for First-Line Supervisors of Production and Operating Workers.
- **Median annual wage** upon completion of \$49,482.
- 82% of students are **employed within a year** after completing a program.
- 79% of students **attained a living wage** within a year of completion.
- +75% **change in earnings** for completers.
- 56% of students were **part time**, 16% **skill builders**, 51% **first-generation**, and 89% **economically disadvantaged**.

¹ The South Central Coast Region consists of San Luis Obispo County, Santa Barbara County, Ventura County, and the following cities from North Los Angeles County: Canyon Country, Castaic, Lake Hughes, Lancaster, Littlerock, Llano, Newhall, Palmdale, Pearblossom, Santa Clarita, Stevenson Ranch, and Valencia.

Occupation Codes and Descriptions

There is one occupation in the standard occupational classification (SOC) system that was identified as related to Aeronautical Leadership and Management for this analysis. The occupation title and description, as well as reported job titles are included in Exhibit 1.

Exhibit 1 – Occupation, description, and sample job titles

SOC Code	Title	Description	Sample of Reported Job Titles
51-1011	First-Line Supervisors of Production and Operating Workers	Directly supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators. Excludes team or work leaders.	Assembly Supervisor, Line Supervisor, Manufacturing Supervisor, Molding Supervisor, Plant Supervisor, Production Manager, Production Supervisor, Quality Assurance Supervisor (QA Supervisor)

Source: O*NET Online

Current and Future Employment

In the South Central Coast region, the number of jobs related to Aeronautical Leadership and Management are expected to remain steady for First-Line Supervisors of Production and Operating Workers.

Exhibit 2 – Five-year projections for Aeronautical Leadership and Management in the South Central Coast region

SOC	Occupation	2020 Jobs	2025 Jobs	2020-2025 Change	2020-2025 % Change
51-1011	First-Line Supervisors of Production and Operating Workers	2,458	2,519	61	2%

Source: Economic Modeling Specialists International (EMSI)

Earnings

In the South Central Coast region, the average wage for the listed occupation is \$30.49 per hour.

Exhibit 3 contains hourly wages and annual average earnings for this occupation. Entry-level hourly earnings are represented by the 25th percentile of wages, median hourly earnings are represented by the 50th percentile of wages, and experienced hourly earnings are represented by the 75th percentile of wages, demonstrating various levels of employment.

Exhibit 3 – Earnings for Aeronautical Leadership and Management in the South Central Coast region

SOC	Occupation	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
51-1011	First-Line Supervisors of Production and Operating Workers	\$22.79	\$30.49	\$40.49

Source: Economic Modeling Specialists International (EMSI)

Employer Job Postings

In this research brief, real-time labor market information is used to provide a more nuanced view of the current job market, as it captures job advertisements for occupations relevant to the field of study. Employer job postings are consulted to understand who is looking for First-Line Supervisors of Production and Operating Workers, and what they are looking for in potential candidates. To identify job postings related to Aeronautical Leadership and Management the following standard occupational classification was used:

51-1011 First-Line Supervisors of Production and Operating Workers

Top Occupations

In 2019, there were 391 employer postings for the occupation related to Aeronautical Leadership and Management.

Exhibit 4 – Top occupations in job postings and risk of automation tables

SOC Code	Occupation	Job Postings, Full Year 2019
51-1011	First-Line Supervisors of Production and Operating Workers	391

Source: Labor Insight/Jobs (Burning Glass)

SOC Code	Occupation	Risk of Automation
51-1011	First-Line Supervisors of Production and Operating Workers	Low

Source: Labor Insight/Jobs (Burning Glass)

Top Titles

The top job titles for employers posting ads for jobs related to Aeronautical Leadership and Management are listed in Exhibit 5. Production Supervisor is mentioned as the job title in 17% of all relevant job postings (65 postings).

Exhibit 5 –Job Titles

Title	Job Postings, Full Year 2019
Production Supervisor	65
Production Lead	24
Plant Manager	22
Manufacturing Supervisor	11
Machine Shop Manager	7

Source: Labor Insight/Jobs (Burning Glass)

Top Employers

Exhibit 6 lists the major employers hiring professionals in the Aeronautical Leadership and Management field. The top employer posting job ads was Lockheed Martin. The top worksite cities in the region for this occupation were Santa Clarita, Simi Valley, Thousand Oaks, Oxnard, and Camarillo.

Exhibit 6 – Top Employers (n=282)

Employer	Job Postings, Full Year 2019
Lockheed Martin	19
Meggitt PLC	11
Masco Corporation	11
Milgard Manufacturing Incorporated	8
Takeda Pharmaceuticals North America	7
Amgen	7

Source: Labor Insight/Jobs (Burning Glass)

Skills

Scheduling is the most sought after skill for employers hiring for jobs related to Aeronautical Leadership and Management.

Exhibit 7 –Job Skills (n=366)

Skills	Job Postings, Full Year 2019
Scheduling	119
Lean Manufacturing	72
Budgeting	67
Supervisory Skills	66
Machining	56
Staff Management	51
Repair	51

Source: Labor Insight/Jobs (Burning Glass)

Industry Concentration

Exhibit 8 shows the industries with most Aeronautical Leadership and Management postings in the South Central Coast. Note: 21% of records have been excluded because they do not include an industry. As a result, the chart below may not be representative of the full sample.

Exhibit 8 – Industries employing the most in the Aeronautical Leadership and Management field, 2019

Industry	Occupation Group Jobs in Industry	% of Occupation Group in Industry
Manufacturing	184	60%
Utilities	25	8%
Professional, Scientific, and Technical Services	21	7%
Public Administration	18	6%

Source: Labor Insight/Jobs (Burning Glass)

Education and Training

Exhibit 9 shows the typical entry-level education requirement for the occupation of interest, along with the typical on-the-job training needed to attain competency in the occupation.

Exhibit 9 – Education and Training Requirements

SOC	Occupation	Typical entry-level education	Typical on-the-job training
51-1011	First-Line Supervisors of Production and Operating Workers	High School Diploma or Equivalent	None

Source: Bureau of Labor Statistics Employment Projections (Educational Attainment)

Regional Completions and Openings

There were 31 regional completions (2020) and 273 regional openings (2020) in the South Central Coast region in programs related to the occupation identified as related to Aeronautical Leadership and Management.

Exhibit 10 – Completions and Openings

3 Regional Institutions had Related Programs (2020)	31 Regional Completions (2020)	273 Annual Openings (2020)
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Source: Economic Modeling Specialists International (EMSI)

Related Programs

CIP Code	Program	Completions (2020)
15.0613	Manufacturing Engineering Technology/Technician	22
15.1501	Engineering/Industrial Management	9

Source: Economic Modeling Specialists International (EMSI)

Student Outcomes

The CTE LaunchBoard provides student outcome data on the effectiveness of CTE programs. The following student outcome information was collected from current students and exiters of regional Aeronautical and Aviation Technology programs (TOP: 0950.00) for the 2017-18 academic year.

- **Median annual wage** upon completion of \$49,482.
- 82% of students are **employed within a year** after completing a program.
- 79% of students **attained a living wage** within a year of completion.
- +75% **change in earnings** for completers.
- 56% of students were **part time**, 16% **skill builders**, 51% **first-generation**, and 89% **economically disadvantaged**.

Source: CTE LaunchBoard

Sources

O*Net Online, Labor Insight/Jobs (Burning Glass), Economic Modeling Specialists International (EMSI), MIT Living Wage Calculator, Bureau of Labor Statistics (BLS) Education Attainment, California Community Colleges Chancellor's Office Management Information Systems (MIS) Data Mart, CTE LaunchBoard, Statewide CTE Outcomes Survey, Employment Development Department Unemployment Insurance Dataset

Notes

Data included in this analysis represent the labor market demand for relevant positions most closely related to Aeronautical Leadership and Management. Traditional labor market information was used to show current and projected employment based on data trends, as well as annual average awards granted by regional community colleges. Real-time labor market information captures job post advertisements for occupations relevant to the field of study and can signal demand and show what employers are looking for in potential employees, but is not a perfect measure of the quantity of open positions. All representations have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. The most recent data available at the time of the analysis was examined; however, data sets are updated regularly and may not be consistent with previous reports. Efforts have been made to qualify and validate the accuracy of the data and findings; however, neither the Centers of Excellence for Labor Market Research (COE), COE host district, nor California Community Colleges Chancellor's Office are responsible for the applications or decisions made by individuals and/or organizations based on this study or its recommendations.