



Logistics and Materials Transportation (TOP 0510.00)

October 2022

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 – Logistics and Materials Transportation. 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 Logistics and Materials Transportation are expected to increase** for Logisticians.
- Logistics and Materials Transportation is anticipated to experience a **low risk of automation** for Logisticians.
- In 2020 there were 0 regional completions in programs related to the occupations identified as related to Logistics and Materials Transportation and 192 openings, indicating an **undersupply**.
- Typical entry-level education is a **Bachelor's degree** for both related occupations.
- Completers of statewide Logistics and Materials Transportation programs from the 2018-2019 academic year had a **median annual wage upon completion of \$39,938**. (statewide)
- 47% of students are **employed within a year** after completing a program. (statewide)
- 65% of students **attained a living wage** within a year of completion. (statewide)
- Completers experienced an average of +19% **change in earnings after exiting**. (statewide)
- 70% of students were **part-time**, 9% **skill builders**, 43% **first-generation**, and 76% **economically disadvantaged**. (statewide)

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 are two occupations in the standard occupational classification (SOC) system that were identified as related to Logistics and Materials Transportation for this analysis. The occupation titles and descriptions, 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
13-1081.01	Logistics Engineers	Design or analyze operational solutions for projects such as transportation optimization, network modeling, process and methods analysis, cost containment, capacity enhancement, routing and shipment optimization, or information management.	Acquisitions Logistics Engineer, Logistics Engineer, Reliability Engineer, Supportability Engineer, Systems Engineer
13-1081.02	Logistics Analysts	Analyze product delivery or supply chain processes to identify or recommend changes. May manage route activity including invoicing, electronic bills, and shipment tracing.	Global Logistics Analyst, Logistics Analyst, Logistics Management Analyst, Material Supply Planner, Supply Chain Analyst, Transportation Analyst

Source: O*NET Online

Current and Future Employment

In the South Central Coast region, the number of jobs related to Logistics and Materials Transportation are expected to increase for Logisticians.

Exhibit 2 – Five-Year Projections for Logistics and Materials Transportation in the South Central Coast

SOC	Occupation	2021 Jobs	2026 Jobs	2021-2026 Change	2021-2026 % Change
13-1081 (for 13-1081.01 and 13-1081.02)	Logisticians	1,561	1,746	185	12%

Source: Economic Modeling Specialists International (EMSI)

Earnings

Exhibit 3 contains hourly wages and annual average earnings for these occupations. 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 Logistics and Materials Transportation in the South Central Coast Region

SOC	Occupation	Entry-Level Hourly Earnings	Median Hourly Earnings	Experienced Hourly Earnings
13-1081 (for 13-1081.01 and 13-1081.02)	Logisticians	\$33.10	\$43.37	\$50.37

Source: Economic Modeling Specialists International (EMSI)

Exhibit 3b – Earnings for Logistics and Materials Transportation in the South Central Coast Region



Source: Family Needs Calculator (Living wage is based on Single Adult household with no children); 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 logisticians, and what they are looking for in potential candidates. To identify job postings related to Logistics and Materials Transportation the following standard occupational classifications were used:

13-1081.01	Logistics Engineers
13-1081.02	Logistics Analysts

Top Occupations

In 2021, there were 128 employer postings in the South Central Coast region for the occupations related to Logistics and Materials Transportation.

Exhibit 4 – Top Occupations by Job Postings

SOC Code	Occupation	Job Postings, Full Year 2021
13-1081.02	Logistics Analysts	127
13-1081.01	Logistics Engineers	1

Source: Labor Insight/Jobs (Burning Glass)

Exhibit 4b – Top Occupations and Risk of Automation

SOC Code	Occupation	Risk of Automation
13-1081.02	Logistics Analysts	Low
13-1081.01	Logistics Engineers	Low

Source: Labor Insight/Jobs (Burning Glass)

Top Titles

The top job titles for employers posting ads for jobs related to Logistics and Materials Transportation are listed in Exhibit 5. Supply Chain Analyst is mentioned as the job title in 14% of all relevant job postings (18 postings).

Exhibit 5 –Job Titles

Title	Job Postings, Full Year 2021
Supply Chain Analyst	18
Logistics Analyst	15
Fulfillment Coordinator	9
Logistics Management Analyst	5
Materials Analyst	4

Source: Labor Insight/Jobs (Burning Glass)

Top Employers

Exhibit 6 lists the major employers hiring professionals in the Logistics and Materials Transportation field. The top employer posting job ads was Dole Packaged Foods. The top worksite cities in the region for these occupations were Thousand Oaks, Westlake Village, Camarillo, Port Hueneme, and Santa Clarita.

Exhibit 6 – Top Employers (n=98)

Employer	Job Postings, Full Year 2021
Dole Packaged Foods	7
Skyworks Solutions Incorporated	7
Deckers Outdoor Corporation	6
Northrop Grumman	5
HCI Integrated Solutions	4

Source: Labor Insight/Jobs (Burning Glass)

Skills

The tables in Exhibit 7 list employers' most commonly requested skills in job postings related to Logistics and Materials Transportation. Supply Chain Knowledge is the most sought-after specialized skill for employers, followed by Logistics and SAP. Planning, Microsoft Excel, and Detail-Oriented were the most requested baseline skills. Microsoft Excel, SAP, and Microsoft Office were the most commonly requested software and programming skills.

Exhibit 7 – Specialized Skills (n= 1,488)

Skills	Job Postings, Full Year 2021
Supply Chain Knowledge	62
Logistics	56
SAP	47
Enterprise Resource Planning (ERP)	34
Supply Chain Management	34
Procurement	31
Scheduling	30
Inventory Management	28
Purchasing	28
Logistics Analysis	26

Source: Labor Insight/Jobs (Burning Glass)

Exhibit 7b – Baseline Skills (n= 630)

Skills	Job Postings, Full Year 2021
Planning	57
Microsoft Excel	51
Detail-Oriented	44
Microsoft Office	44
Organizational Skills	38
Teamwork / Collaboration	38
Communication Skills	36
Problem Solving	31
Written Communication	29
Computer Literacy	20

Source: Labor Insight/Jobs (Burning Glass)

Exhibit 7c – Software and Programming Skills (n= 319)

Skills	Job Postings, Full Year 2021
Microsoft Excel	51
SAP	47
Microsoft Office	44
Enterprise Resource Planning (ERP)	34
Microsoft Powerpoint	16
Microsoft Word	14
Tableau	14
Microsoft Sharepoint	9
Oracle	9
SQL	8

Source: Labor Insight/Jobs (Burning Glass)

The table below lists the skill clusters most in demand for Logistics and Materials Transportation occupations.

Exhibit 7d – Skill Clusters in Demand (n=1,132)

Skill Cluster	Job Postings, Full Year 2021
Supply Chain and Logistics: Supply Chain Management	72
Information Technology: Enterprise Resource Planning (ERP)	63
Supply Chain and Logistics: Logistics	60
Supply Chain and Logistics: Procurement	59
Information Technology: Microsoft Office and Productivity Tools	58
Supply Chain and Logistics: Supply Chain Planning	43
Supply Chain and Logistics: Inventory Management	39
Business: Business Process and Analysis	33
Administration: Scheduling	30
Business: Operations Management	24

Source: Labor Insight/Jobs (Burning Glass)

Industry Concentration

Exhibit 8 shows the industries with the most Logistics and Materials Transportation postings in the South Central Coast. Note: 28% 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 Logistics and Materials Transportation Field, 2021

Industry	Occupation Group Jobs in Industry	% of Occupation Group in Industry
Transportation and Warehousing	33	36%
Manufacturing	23	25%
Professional, Scientific, and Technical Services	13	14%
Finance and Insurance	6	7%
Retail Trade	2	2%

Source: Labor Insight/Jobs (Burning Glass)

Certifications

Exhibit 9 lists the most in-demand certifications in the Logistics and Materials Transportation field. The top requested certification in job postings was Security Clearance.

Exhibit 9 – Certifications (n= 42)

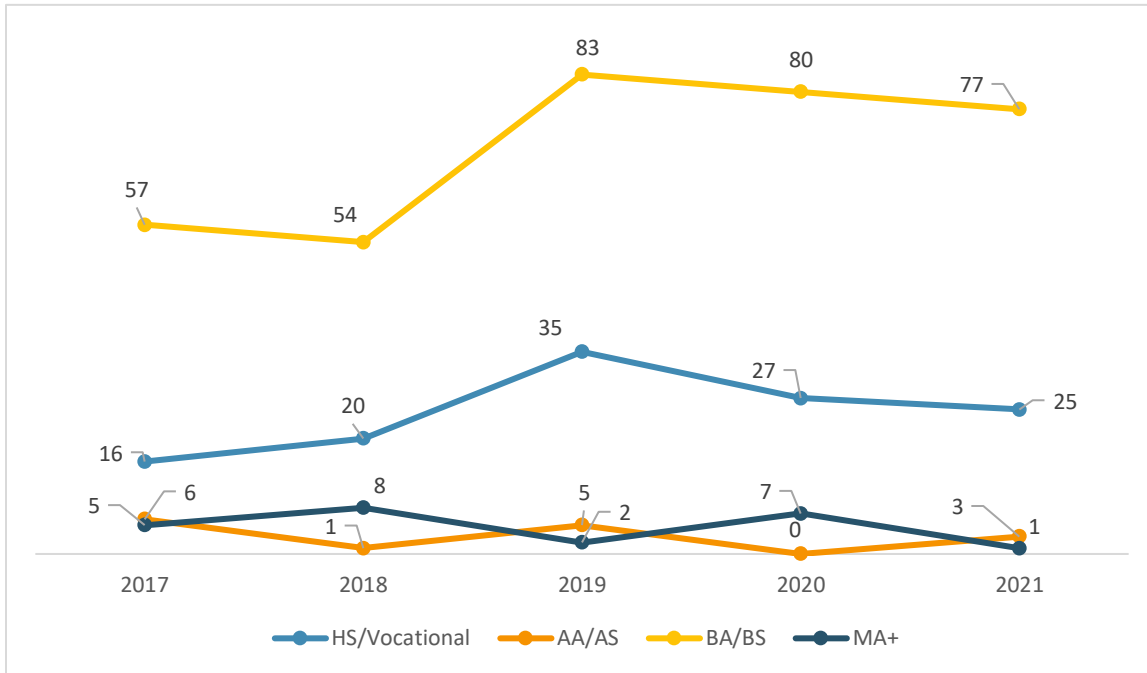
Certifications	Job Postings, Full Year 2021
Security Clearance	21
Driver's License	6
Certified in Production and Inventory Management (CPIM)	4
Life and Health Insurance License	2
American Production and Inventory Control Society (APICS)	2

Source: Labor Insight/Jobs (Burning Glass)

Job Postings - Minimum Educational Attainment Over Time

Exhibit 10 displays the change in job advertisements over the last five years for Logistics and Materials Transportation, according to the minimum advertised education. In 2021, there were 106 total job ads posted with a minimum advertised education, with 77 of them requiring a bachelor’s degree.

Exhibit 10 – Educational Demand, Minimum Advertised



Source: Labor Insight / Jobs (Burning Glass)

Job Postings – Proportion of Job Postings by Minimum Educational Attainment Required

To gauge employer preference for candidates with particular education levels, the proportion of job postings by minimum advertised education appears in Exhibit 11. Employers posting job ads for Logistics and Materials Transportation have frequently sought candidates with a bachelor’s degree.

Exhibit 11 – Occupational Demand by Education, Minimum Advertised

Minimum Education Requirement	2017	2018	2019	2020	2021
HS Diploma / Vocational Training	19%	24%	28%	24%	24%
Associate Degree	7%	1%	4%	0%	3%
Bachelor’s Degree	68%	65%	66%	70%	73%
Graduate Degree	6%	10%	2%	6%	1%

Source: Labor Insight/Jobs (Burning Glass)

Education and Training

Exhibit 12 shows the typical entry-level education requirement for the occupations of interest, along with the typical on-the-job training needed to attain competency in the occupation.

Exhibit 12 – Education and Training Requirements

SOC	Occupation	Typical entry-level education	Typical on-the-job training
13-1081.01	Logistics Engineers	Bachelor's degree	None
13-1081.02	Logistics Analysts	Bachelor's degree	None

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

Regional Completions and Openings

There were 0 regional completions (2020) and 192 regional openings (2020) in the South Central Coast region in programs related to the occupations identified as aligned with Logistics and Materials Transportation.

Exhibit 13 – Completions and Openings

1 Regional Institution had a Related Program (2020)	0 Regional Completions (2020)	192 Annual Openings (2020)
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Source: Economic Modeling Specialists International (EMSI)

Related Programs

CIP Code	Program	Completions (2020)
52.0211	Project Management	0

Source: Economic Modeling Specialists International (EMS)

Student Outcomes

The CTE LaunchBoard provides student outcome data on the effectiveness of CTE programs. The following student outcome information was collected from exiters of statewide Logistics and Materials Transportation Programs (TOP: 0510.00) for the 2018-19 academic year. As program data was unavailable at the regional level for the South Central Coast, statewide level data is provided.

- Completers of Logistics and Materials Transportation programs from the 2018-2019 academic year had a **median annual wage upon completion of \$39,938**. (statewide)
- 47% of students are **employed within a year** after completing a program. (statewide)
- 65% of students **attained a living wage** within a year of completion. (statewide)
- Completers experienced an average of +19% **change in earnings after exiting**. (statewide)
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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 Logistics and Materials Transportation. 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.