

Program Endorsement Brief: 3020.00 – Aviation and Airport Management and Services Aviation Administration

Los Angeles/Orange County Center of Excellence, February 2022

Summary

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 type="checkbox"/>		No <input checked="" type="checkbox"/>	

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 two middle-skill occupations:

- *Transportation, storage, and distribution managers (11-3071); and*
- *Transportation inspectors (53-6051)*

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 occupations.

Based on the available data, there appears to be a supply gap in the region for the two occupations of interest. In addition to the majority of annual openings having entry-level wages that exceed the self-sufficiency standard wage in both Los Angeles and Orange counties, more than one-third of incumbent workers have completed some college or an associate degree. **Due to all of the criteria being met, the COE endorses this program.** Detailed reasons include:

Demand:

- **Supply Gap Criteria** – Over the next five years, there is projected to be **639 jobs available annually** in the region due to new job growth and replacements, **which is more than the 57 awards conferred annually** by educational institutions in the region.

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.

- **Living Wage Criteria** – In Los Angeles County, **the majority (81%) of annual job openings** for the two occupations of interest have entry-level wages **above** the self-sufficiency standard wage (\$18.10/hour).²
- **Educational Criteria** – The Bureau of Labor Statistics (BLS) lists a **high school diploma or equivalent** as the typical entry-level education for both occupations in this report.
 - However, national-level educational attainment data indicates that **between 36% and 45% of incumbent workers have completed some college or an associate degree.**

Supply:

- Between 2017 and 2020, **three community colleges** in the LA/OC region issued awards in aviation and airport management programs, **conferring an average of 57 awards.**
- Currently, there are no non-community college institutions in the region that have conferred awards in relevant programs.

Self-Sufficiency Standard wage data was pulled from The Self-Sufficiency Standard Tool for California. For more information, visit: <http://selfsufficiencystandard.org/california>.

Occupational Demand

Exhibit 1 shows the five-year occupational demand projections for the two occupations of interest. In Los Angeles/Orange County, the number of jobs related to these occupations is projected to remain steady through 2025. There will be 639 job openings per year through 2025 due to job growth and replacements.

This report includes employment projection data by Emsi which uses EDD information. Emsi's projections are modeled on recorded (historical) employment figures and incorporate several underlying assumptions, including the assumption that the economy, during the projection period, will be at approximately full employment. To the extent that a recession or labor shock, such as the economic effects of COVID-19, can cause long-term structural change, it may impact the projections. At this time, it is not possible to quantify the full impact of COVID-19 on projections of industry and occupational employment. Therefore, the projections included in this report do not take the full impacts of COVID-19 into account.

Exhibit 1: Occupational demand in Los Angeles and Orange Counties³

Geography	2020 Jobs	2025 Jobs	2020-2025 Change	2020-2025 % Change	Annual Openings
Los Angeles	6,263	6,312	49	1%	507
Orange	1,724	1,701	(23)	(1%)	133
Total	7,986	8,013	27	0%	639

Wages

The labor market endorsement in this report considers the hourly wages for the two occupations of interest in Los Angeles County, as they relate to the county's self-sufficiency standard wage. Orange County wages are included below in order to provide a complete analysis of the LA/OC region. Detailed wage information, by county, is included in Appendix A.

Los Angeles County—The majority (81%) of annual openings for the occupations of interest have entry-level wages **above** the self-sufficiency standard wage for one adult (\$18.10 in Los Angeles County). Typical entry-level hourly wages are in a range between \$13.10 and \$33.23. One occupation in this report has entry-level wages above the county's self-sufficiency standard wage: *transportation, storage, and distribution managers* (\$33.23). Experienced workers can expect to earn wages between \$53.21 and \$64.04.

Orange County—The majority (87%) of annual openings for the occupations of interest have entry-level wages **above** the self-sufficiency standard wage for one adult (\$20.63 in Orange County). Typical entry-level hourly wages are in a range between \$12.81 and \$34.44. One occupation in this report has entry-level wages above the county's self-sufficiency standard wage: *transportation, storage, and distribution managers* (\$34.44). Experienced workers can expect to earn wages between \$52.15 and \$66.34.

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.

Job Postings

Over the past 12 months, there have been 958 online job postings related to the two occupations of interest. The highest number of job postings were for transportation managers, inspection technicians, transportation specialists, traffic managers, and pilot safety inspectors. The top skills were scheduling, aviation security, repair, Federal Aviation regulations, customer service, occupational health and safety, transportation systems, and staff management. The top employers, by number of job postings, in the region were Federation Aviation Administration, Sysco Corporation, and Transportation Security Administration.

It is important to note that the job postings data included in this section reflects online job postings listed in the past 12 months and does not yet demonstrate the full impact of COVID-19. While employers have generally posted fewer online job postings since the beginning of the pandemic, the long-term effects are currently unknown.

Educational Attainment

The Bureau of Labor Statistics (BLS) lists a high school diploma or equivalent as the typical entry-level education for both occupations in this report. However, national-level educational attainment data indicates that between 36% and 45% of incumbent workers have completed some college or an associate degree.

Educational Supply

Community College Supply—Exhibit 2 shows the annual and three-year average number of awards conferred in Aviation and Airport Management and Services (TOP 3020.00), and Aviation and Airport Management (3020.10). The college with the most completions in the region is Cypress.

Exhibit 2: Regional community college awards (certificates and degrees), 2017-2020

TOP Code	Program	College	2017-18 Awards	2018-19 Awards	2019-20 Awards	3-Year Average
3020.00	Aviation and Airport Management and Services	Orange Coast	16	12	10	13
		OC Subtotal	16	12	10	13
		Supply Subtotal/Average	16	12	10	13
3020.10	Aviation and Airport Management	Glendale	6	6	6	6
		LA Subtotal	6	6	6	6
		Cypress	34	47	33	38
		OC Subtotal	34	47	33	38
Supply Subtotal/Average			40	53	39	44
Supply Total/Average			56	65	49	57

Non-Community College Supply—Currently, there are no non-community college institutions in the region that have conferred awards in relevant programs.

Appendix A: Occupational demand and wage data by county

Exhibit 3. Los Angeles County

Occupation (SOC)	2020 Jobs	2025 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)
Transportation, Storage, and Distribution Managers (11-3071)	5,486	5,477	(9)	0%	410	\$33.23	\$46.08	\$64.04
Transportation Inspectors (53-6051)	777	835	58	7%	97	\$13.10	\$33.51	\$53.21
Total	6,263	6,312	49	1%	507	-	-	-

Exhibit 4. Orange County

Occupation (SOC)	2020 Jobs	2025 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)
Transportation, Storage, and Distribution Managers (11-3071)	1,566	1,545	(21)	(1%)	116	\$34.44	\$47.74	\$66.34
Transportation Inspectors (53-6051)	157	157	0	0%	17	\$12.81	\$32.79	\$52.15
Total	1,724	1,701	(23)	(1%)	133	-	-	-

Exhibit 5. Los Angeles and Orange Counties

Occupation (SOC)	2020 Jobs	2025 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Typical Entry-Level Education
Transportation, Storage, and Distribution Managers (11-3071)	7,052	7,021	(31)	0%	525	HS diploma or equivalent
Transportation Inspectors (53-6051)	935	992	57	6%	114	HS diploma or equivalent
Total	7,986	8,013	27	0%	639	-

Appendix B: Sources

- O*NET Online
- Labor Insight/Jobs (Burning Glass)
- Economic Modeling Specialists, International (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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