

Program Endorsement Brief: 0514.00/Office Technology/Office Computer Applications Business Education Core; Business Education Foundations

Orange County Center of Excellence, April 2021

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Summary	v Ana	IVSIS

Program Endorsement:	Endorsed: All Criteria Met		Endorsed: Some Criteria Met	X	Not Endorsed	
	Program End	lorsen	nent Criteria			
Supply Gap:	Yes 🗹		iciii ciiiciid	N	。 □	
Living Wage:						
(Entry-Level, 25th)	Yes 🗆			N	o 🗹	
Education:	Yes 🗹			Ν	。 口	
	Emerging	Occu	pation(s)			
Yes				No ☑		

The 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 five middle-skill occupations: first-line supervisors of office and administrative support workers (43-1011), bill and account collectors (43-3011), procurement clerks (43-3061), customer service representatives (43-4051), and secretaries and administrative assistants, except legal, medical, and executive (43-6014). Middle-skill occupations typically require some postsecondary education, but less than a bachelor's degree. 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 for these middle-skill business occupations in the region. While more than one-third of current workers employed in these occupations have completed some college or an associate degree, the majority of annual openings have entry-level wages that are lower than the living wage in Orange County.

Therefore, due to some of the criteria being met, the COE endorses this proposed program.

Detailed reasons include:

Demand:

Supply Gap Criteria – Over the next five years, there is projected to be 26,881 jobs available annually in the region due to retirements and workers leaving the field, which is more than the 2,694 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 Within Orange County, the majority (78%) of annual job openings for these middle-skill business occupations have entry-level wages below the county's living wage (\$17.36/hour).²
- Educational Criteria The Bureau of Labor Statistics (BLS) lists a high school diploma as
 the typical entry-level education for each of the five middle-skill business occupations in
 this report.
 - However, the national-level educational attainment data indicates between
 37.8% and 46.2% of workers in the field have completed some college or an associate degree.

Supply:

- There are 28 community colleges in the LA/OC region that issue awards related to business education, conferring an average of 2,012 awards annually between 2016 and 2019.
- Between 2014 and 2017, there was an average of 682 awards conferred annually in related training programs by non-community college institutions throughout the region.

Occupational Demand

Exhibit 1 shows the five-year occupational demand projections for these middle-skill business occupations. In Los Angeles/Orange County, the number of jobs related to these occupations is projected to decrease by 4% through 2024. However, there will be more than 26,800 job openings per year through 2024 due to retirements and workers leaving the field.

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 impact of COVID-19 on projections of industry and occupational employment. Therefore, the projections included in this report do not take the impacts of COVID-19 into account.

Exhibit 1: Occupational demand in Los Angeles and Orange Counties³

Geography	2019 Jobs	2024 Jobs	2019-2024 Change	2019-2024 % Change	Annual Openings
Los Angeles	189,526	181,066	(8,460)	(4%)	19,339
Orange	<i>7</i> 3,541	70,632	(2,909)	(4%)	7,542
Total	263,067	251,698	(11,369)	(4%)	26,881

² Living wage data was pulled from California Family Needs Calculator on 4/21/2021. For more information, visit the California Family Needs Calculator website: https://insightcced.org/2018-family-needs-calculator/.

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

The labor market endorsement in this report considers the entry-level hourly wages for these middle-skill business occupations in Orange County as they relate to the county's living wage. Los Angeles 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.

Orange County— The majority (78%) of annual openings for these middle-skill business occupations have entry-level wages below the living wage for one adult (\$17.36 in Orange County). Typical entry-level hourly wages are in a range between \$14.88 and \$22.77. The only occupation in this report with typical entry-level wages that exceed the living wage is *first-line supervisors* of office and administrative support workers; the other four occupations earn typical entry-level wages below the county's living wage. Experienced workers can expect to earn wages between \$23.60 and \$36.78, which are higher than the living wage estimate. Orange County's average wages are slightly below the average statewide wage of \$23.62 for these occupations.

Los Angeles County— The majority (65%) of annual openings for these middle-skill business occupations have entry-level wages above the living wage for one adult (\$15.04 in Los Angeles County). Typical entry-level hourly wages are in a range between \$14.83 and \$22.88. The only occupation in this report with typical entry-level wages below the living wage is customer service representatives; the other four occupations earn typical entry-level wages above the county's living wage. Experienced workers can expect to earn wages between \$23.56 and \$36.98, which are higher than the living wage estimate. Los Angeles County's average wages are slightly below the average statewide wage of \$23.62 for these occupations.

Job Postings

There were 63,406 online middle-skill job postings related to business listed in the past 12 months. Exhibit 2 displays the job postings by occupation for these middle-skill occupations. The majority of job postings (55%) were for customer service representatives, followed by secretaries and administrative assistants, except legal, medical and executive (28%), and first-line supervisors of office and administrative support workers (13%). The titles most often used mentioned in job postings were for customer service representatives, executive assistants, office managers, customer service associates, and call center representatives. The top skills were: customer service, scheduling, customer contact, sales, and customer billing. The top three employers, by number of job postings, in the region were: Anthem Blue Cross, State Farm Insurance Companies, and Circle K.

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 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.

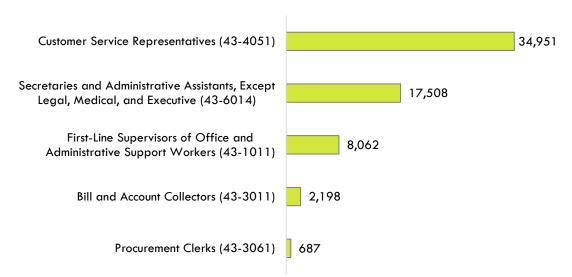


Exhibit 2: Job postings by occupation (last 12 months)

Educational Attainment

The Bureau of Labor Statistics (BLS) lists a high school diploma as the typical entry-level education for each of the middle-skill business occupations in this report. However, the national-level educational attainment data indicates between 37.8% and 46.2% of workers in the field have completed some college or an associate degree. Of the 54% of middle-skill business job postings listing a minimum education requirement in Los Angeles/Orange County, 69% (23,698) requested a high school diploma, 24% (8,252) requested a bachelor's degree, and 7% (2,242) requested an associate degree.

Educational Supply

Community College Supply—Exhibit 3 shows the three-year average number of awards conferred by community colleges in the related TOP codes: Business and Commerce, General (0501.00), Banking and Finance (0504.00), Management Development and Supervision (0506.30), Sales and Salesmanship (0509.40), Office Technology/Office Computer Applications (0514.00), Office Management (0514.140), Customer Service (0515.00), and Consumer Services (1301.10). The colleges with the most completions in the region are: Coastline, Mt. San Antonio, and LA Valley. Over the past 12 months, there were 22 other related program recommendation requests from regional community colleges.

Exhibit 3: Regional community college awards (certificates and degrees), 2016-2019

TOP Code	Program	College	2016- 2017 Awards	2017- 2018 Awards	2018- 2019 Awards	3-Year Award Average
		Cerritos	23	39	41	34
		Compton	47	1	-	16
		Glendale	47	48	40	45
		LA City	21	113	1 <i>57</i>	97
		LA Harbor	20	8	13	14
		LA Mission	38	29	9	25
		LA Pierce	-	-	5	2
	Business and	LA Southwest	48	20	30	33
0501.00	Commerce,	Long Beach	69	93	130	97
	General	Mt San Antonio	183	161	209	184
		Santa Monica	-	-	1	0
		West LA	38	8	5	17
		LA Subtotal	534	520	640	565
		Coastline	-	5	5	3
		Golden West	7	-	-	2
		Saddleback	14	8	14	12
		OC Subtotal	21	13	19	18
	Supply	Subtotal/Average	555	533	659	582
		Citrus	1	6	8	5
		Glendale	4	2	1	2
		LA City	3	5	9	6
	.	LA Mission	1	1	-	1
0504.00	Banking and Finance	LA Pierce	-	-	1	0
		LA Southwest	2	-	2	1
		LA Valley	35	26	34	32
		Pasadena	3	8	5	5
		LA Subtotal	49	48	60	52
	Supply	Subtotal/Average	49	48	60	52

TOP Code	Program	College	2016- 2017 Awards	2017- 2018 Awards	2018- 2019 Awards	3-Year Award Average
		Cerritos	1	8	14	8
		LA Harbor	1	-	-	0
		LA Pierce	3	6	4	4
		LA Southwest	1 <i>7</i>	16	12	15
		LA Trade	19	18	5	14
		LA Valley	10	18	23	1 <i>7</i>
	Managamant	Pasadena	9	7	3	6
0506.30 Management Development and Supervision	Rio Hondo	21	63	20	35	
	and	Santa Monica	10	1 <i>7</i>	6	11
	Supervision	LA Subtotal	91	153	87	110
		Coastline	269	312	355	312
		Irvine	1	-	-	0
		Saddleback	29	23	34	29
		Santa Ana	-	13	4	6
		Santiago Canyon	-	2	-	1
		OC Subtotal	299	350	393	347
	Supply	Subtotal/Average	390	503	480	458
		Cerritos	10	-	-	3
		Santa Monica	14	16	13	14
050940	Sales and	LA Subtotal	24	16	13	18
030740	Salesmanship	Orange Coast	-	11	3	5
		Santa Ana	-	1	-	0
		OC Subtotal	0	12	3	5
	Supply	Subtotal/Average	24	28	16	23

TOP Code	Program	College	2016- 2017 Awards	2017- 2018 Awards	2018- 2019 Awards	3-Year Award Average
		Cerritos	16	11	14	14
		Citrus	19	16	23	19
		Compton	4	2	-	2
		East LA	43	110	54	69
		El Camino	-	-	2	1
		Glendale	77	66	44	62
		LA City	26	4	1	10
		LA Harbor	24	7	5	12
		LA Mission	32	35	23	30
		LA Pierce	40	35	54	43
		LA Southwest	1	2	2	2
		LA Trade	37	39	31	36
	Office Technology/	LA Valley	84	91	119	98
0514.00		Long Beach	20	27	33	27
0314.00	Office Computer	Mt San Antonio	16	34	75	42
	Applications	Pasadena	13	11	38	21
		Santa Monica	-	3	7	3
		West LA	1	2	1	1
		LA Subtotal	453	495	526	491
		Coastline	40	21	12	24
		Cypress	9	10	1 <i>7</i>	12
		Golden West	4	3	8	5
		Irvine	4	12	18	11
		N. Orange Adult	88	97	70	85
		Saddleback	9	9	11	10
		Santa Ana	67	153	138	119
		Santiago Canyon	99	137	106	114
		OC Subtotal	320	442	380	381
	Supply	Subtotal/Average	773	937	906	872
		El Camino	-	1	-	0
0514.40	Office	LA Subtotal	0	1	0	0
0314.40	Management	Cypress	-	1	1	1
		OC Subtotal	0	1	1	1
	Supply	Subtotal/Average	0	2	1	1

TOP Code	Program	College	2016- 2017 Awards	2017- 2018 Awards	2018- 2019 Awards	3-Year Award Average
		East LA	13	30	1 <i>7</i>	20
0518.00 Customer Service		Santa Monica	-	-	3	1
	LA Subtotal	13	30	20	21	
	oci vice	Santiago Canyon	-	6	3	3
		OC Subtotal	0	6	3	3
	Supply	Subtotal/Average	13	36	23	24
1301.10	Consumer	Mt San Antonio	1	-	-	0
1301.10	Services	LA Subtotal	1	0	0	0
	Supply	Subtotal/Average	1	0	0	0
	Su	pply Total/Average	1,805	2,087	2,145	2,012

Non-Community College Supply—For a comprehensive regional supply analysis, it is also important to consider the supply from other institutions in the region that provide training programs for middle-skill business occupations. Exhibit 4 shows the annual and three-year average number of awards conferred by these institutions in the related Classification of Instructional Programs (CIP) Codes: Business/Commerce, General (52.0101), Office Management and Supervision (52.0204), Operations Management and Supervision (52.0205), E-Commerce/Electronic Commerce (52.0208), Administrative Assistant and Secretarial Science, General (52.0401), Business/Office Automation/Technology/Data Entry (52.0407), and General Office Occupations and Clerical Services (52.0408). Due to different data collection periods, the most recent three-year period of available data is from 2014 to 2017. Between 2014 and 2017, four-year colleges in the region conferred an average of 634 awards annually in related training programs.

Exhibit 4: Regional non-community college awards, 2014-2017

CIP Code	Program	College	2014- 2015 Awards	2015- 2016 Awards	2016- 2017 Awards	3-Year Award Average
	Argosy University-Los Angeles	8	9	23	13	
	Argosy University-Orange County	15	11	7	11	
	Azusa Pacific University	13	8	24	15	
	Biola University	115	125	-	80	
	Business/	Brandman University	-	5	-	2
52.0101	Commerce,	DeVry University-California	23	21	19	21
	General	ITT Technical Institute-Orange	15	-	-	5
		ITT Technical Institute-San Dimas	14	-	-	5
		ITT Technical Institute-Sylmar	13	-	-	4
		ITT Technical Institute-Torrance	18	-	-	6
		Loyola Marymount University	13	2	5	7

CIP Code	Program	College	2014- 2015 Awards	2015- 2016 Awards	2016- 2017 Awards	3-Year Award Average
		University of Southern California	4	2	-	2
	Office	California Intercontinental University	3	-	-	1
52.0204	Management and Supervision	Eagle Rock College	2	-	-	1
52.0205	Operations Management and Supervision	University of Phoenix-California	4	2	8	5
	E-Commerce/	University of La Verne	5	3	-	3
52.0208 Electronic Commerce	University of Phoenix-California	1	1	-	1	
		ABCO Technology	4	3	11	6
	Administrative	GDS Institute	115	57	32	68
52.0401 Assistant and Secretarial Science,	Hacienda La Puente Adult Education	57	61	65	61	
	Secretarial Science,	InterCoast Colleges-Anaheim	-	3	8	4
	General	Los Angeles ORT College-Los Angeles	22	5	26	18
		Los Angeles ORT College-Van Nuys	10	6	6	7
52.0407	Business/ Office Automation/ Technology/ Data Entry	Learnet Academy Inc	2	7	27	12
		CES College	9	2	2	4
		Hacienda La Puente Adult Education	66	63	52	60
		UEI College-Gardena	34	32	30	32
	General Office	United Education Institute-Anaheim	60	36	40	45
52.0408	Occupations and	United Education Institute-Encino	40	36	38	38
	Clerical Services	United Education Institute-Huntington Park Campus	96	60	36	64
		United Education Institute-West Covina	31	30	41	34
		Supply Total/Average	935	592	518	682

Appendix A: Occupational demand and wage data by county

Exhibit 5. Orange County

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry- Level Hourly Earnings (25 th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75th Percentile)
First-Line Supervisors of Office and Administrative Support Workers (43-1011)	18,600	17,871	(729)	(4%)	1,679	\$22.77	\$28.94	\$36.78
Bill and Account Collectors (43-3011)	2,790	2,643	(147)	(5%)	285	\$1 <i>7</i> .03	\$21.09	\$26.62
Procurement Clerks (43-3061)	849	801	(48)	(6%)	72	\$16.78	\$19.74	\$25.43
Customer Service Representatives (43-4051)	24,381	23,845	(536)	(2%)	2,858	\$14.88	\$18.41	\$23.60
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive (43-6014)	26,921	25,472	(1,449)	(5%)	2,648	\$16.32	\$20.75	\$25.57
Total	73,541	70,632	(2,909)	(4%)	7,542			

Exhibit 6. Los Angeles County

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry- Level Hourly Earnings (25th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75th Percentile)
First-Line Supervisors of Office and Administrative Support Workers (43-1011)	48,622	46,541	(2,081)	(4%)	4,393	\$22.88	\$29.08	\$36.98
Bill and Account Collectors (43-3011)	5,735	5,352	(383)	(7%)	584	\$16.60	\$20.57	\$25.99
Procurement Clerks (43-3061)	2,248	2,088	(160)	(7%)	190	\$16.56	\$19.48	\$25.10
Customer Service Representatives	<i>57,</i> 870	55,983	(1,888)	(3%)	6,744	\$14.83	\$18.36	\$23.56

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry- Level Hourly Earnings (25th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75th Percentile)
Secretaries and Administrative Assistants, Except Legal, Medical, and	75,050	71,102	(3,948)	(5%)	7,429	\$16.57	\$21.06	\$25.97
Executive (43-6014) Total	189,526	181,066	(8,460)	(4%)	19,339			

Exhibit 7. Los Angeles and Orange Counties

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings
First-Line Supervisors of Office and Administrative Support Workers (43-1011)	67,222	64,413	(2,810)	(4%)	6,072
Bill and Account Collectors (43-3011)	8,525	7,995	(530)	(6%)	869
Procurement Clerks (43-3061)	3,097	2,889	(208)	(7%)	262
Customer Service Representatives (43-4051)	82,251	79,827	(2,424)	(3%)	9,602
Secretaries and Administrative Assistants, Except Legal, Medical, and Executive (43-6014)	101,971	96,574	(5,397)	(5%)	10,077
Total	263,067	251,698	(11,369)	(4%)	26,881

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
- 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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