

**Program Endorsement Brief: 1306.00/Nutrition, Foods, and Culinary Arts
Nutrition and Food Skills Certificate**

Los Angeles/Orange County Center of Excellence, November 2020

Summary Analysis

Program Endorsement:	Endorsed: All Criteria Met <input type="checkbox"/>	Endorsed: Some Criteria Met <input checked="" 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 type="checkbox"/>	No <input checked="" 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 four middle-skill occupations: *food service managers* (11-9051), *dietetic technicians* (29-2051), *chefs and head cooks* (35-1011), and *first-line supervisors of food preparation and serving workers* (35-1012). 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 for these nutrition and food occupations in the region. However, 97% of the annual openings for these occupations typically require a high school diploma or equivalent, and the entry-level wages for 75% of the annual job openings are below the living wage. **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 **10,805 jobs available annually** in the region due to job growth and workers leaving the field, **which is more than the 1,031 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 Los Angeles County, **75% of the annual job openings** for these middle-skill nutrition and food occupations have **entry-level wages below the California Family Needs Calculator living wage** (\$15.04/hour).²
- **Educational Criteria** –Within the LA/OC region, **97% of the annual job openings** for these nutrition and food occupations **typically require a high school diploma or equivalent**.
 - However, the national-level educational attainment data indicates that **between 36.9% and 55.7% of workers in the field have completed some college or an associate degree**.

Supply:

- There are **13 community colleges** in the LA/OC region that issue awards related to nutrition and food, conferring an average of **124 awards annually** between 2016 and 2019.
- Between 2014 and 2017, there was an average of **907 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 nutrition and food occupations. In Los Angeles/Orange County, the number of jobs related to these occupations is projected to increase by 9% through 2024. There will be more than 10,800 job openings per year through 2024 due to job growth 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: Middle-skill occupational demand in Los Angeles and Orange Counties³

Geography	2019 Jobs	2024 Jobs	2019-2024 Change	2019-2024 % Change	Annual Openings
Los Angeles	49,293	53,890	4,597	9%	7,941
Orange	17,552	19,266	1,714	10%	2,864
Total	66,845	73,156	6,311	9%	10,805

² Living wage data was pulled from California Family Needs Calculator on 10/2/20. 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 nutrition and food occupations in Los Angeles County as they relate to the county's living 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—Approximately 25% of the annual openings for these nutrition and food occupations have entry-level wages above the living wage for one adult (\$15.04 in Los Angeles County).⁴ Typical entry-level hourly wages are in a range between \$13.11 and \$16.00. Experienced workers can expect to earn wages between \$20.22 and \$33.77, which are higher than the living wage estimate. Los Angeles County's average wages are below the average statewide wage of \$22.63 for these occupations.

Orange County—All of the annual openings for these nutrition and food occupations have entry-level wages below the living wage for one adult (\$17.36 in Los Angeles County).⁵ The typical entry-level hourly wages are in a range between \$13.30 and \$15.86. Experienced workers can expect to earn wages between \$20.74 and \$32.06, which are higher than the living wage estimate. Orange County's average wages are below the average statewide wage of \$22.63 for these occupations.

Job Postings

There were 16,891 online job postings related to nutrition and food occupations listed in the past 12 months. The highest number of job postings were for shift leader, general manager, assistant manager, restaurant manager, and chef. The top skills were: scheduling, restaurant management, customer service, cooking, and food safety. The top five employers, by number of job postings, in the region were: Starbucks Coffee Company, Marriott International, El Pollo Loco, BJ's Restaurants, Inc., and Panera Bread.

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.

Educational Attainment

The Bureau of Labor Statistics (BLS) lists the following typical entry-level education levels for these nutrition and food occupations:

- **Associate degree:** Dietetic Technicians
- **High school diploma or equivalent:** Chefs and Head Cooks, First-Line Supervisors of Food Preparation and Serving Workers, Food Service Managers

⁴ Living wage data was pulled from California Family Needs Calculator on 10/2/2020. For more information, visit the California Family Needs Calculator website: <https://insightcced.org/2018-family-needs-calculator/>.

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In the LA/OC region, 97% of the annual job openings for these nutrition and food occupations typically require a high school diploma or equivalent. However, the national-level educational attainment data indicates that between 36.9% and 55.7% of workers in the field have completed some college or an associate degree. Of the 35% of the nutrition and food job postings listing a minimum education requirement in Los Angeles/Orange County, 90% (5,268) requested a high school diploma and 10% (580) requested an associate degree.

Educational Supply

Community College Supply—Exhibit 2 shows the annual and three-year average number of awards conferred by community colleges in the related TOP codes: Nutrition and Food and Distribution (1306.00) and Dietetic Services and Management (1306.20). The colleges with the most completions in the region are Saddleback, Orange Coast, and Long Beach. Over the past 12 months, there were three other related program recommendation requests from regional community colleges.

Exhibit 2: 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
1306.00	Nutrition and Food and Distribution	East LA	-	7	14	7
		Glendale	19	4	3	9
		LA Mission	2	3	4	3
		Long Beach	-	2	8	3
		Mt. San Antonio	10	10	15	12
		Pasadena	-	-	2	1
		Santa Monica	1	5	3	3
		West LA	-	1	4	2
		LA Subtotal	32	32	53	39
		Fullerton	2	9	6	6
		Orange Coast	16	9	17	14
		Saddleback	17	23	26	22
		Santa Ana	-	3	3	2
		OC Subtotal	35	44	52	44
Supply Subtotal/Average			67	76	105	83
1306.20	Dietetic Services and Management	Glendale	14	7	14	12
		LA City	10	7	7	8
		Long Beach	20	12	8	13
		LA Subtotal	44	26	29	33
		Orange Coast	11	3	11	8
		OC Subtotal	11	3	11	8
Supply Subtotal/Average			55	29	40	41

TOP Code	Program	College	2016-2017 Awards	2017-2018 Awards	2018-2019 Awards	3-Year Award Average
Supply Total/Average			122	105	145	124

Exhibit 3 displays the Strong Workforce Program (SWP) metrics for the Nutrition, Foods, and Culinary Arts (1306.00) programs in the region.

Exhibit 3: Strong Workforce Program metrics for LA/OC Nutrition, Foods, and Culinary Arts (1306.00) programs

Strong Workforce Program Metrics (2017-18, unless noted otherwise)	Los Angeles/Orange County	California
Unduplicated count of enrolled students (2018-19)	17,455	57,835
Median annual earnings	\$26,146	\$26,508
Median change in earnings	38%	41%
Students who attained the living wage	35%	44%
Job closely related to field of study (2016-17)	66%	66%

Non-Community College Supply—There are other institutions in the region that provide training programs related to nutrition and food skills. 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: Baking and Pastry Arts/Baker/Pastry Chef (12.0501), Culinary Arts/Chef Training (12.0503), Restaurant, Culinary, and Catering Management/Manager (12.0504), Food Preparation/Professional Cooking/Kitchen Assistant (12.0505), and Foods, Nutrition, and Wellness Studies, General (19.0501). Due to different data collection periods, the most recent three-year period of available data is from 2014 to 2017. Between 2014 and 2017, non-community colleges in the region conferred an average of 907 awards annually in related training programs. Please note that all three of Argosy University’s campuses in the region, Hollywood, Los Angeles, and Orange County, closed on March 9th, 2019.

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
12.0501	Baking and Pastry Arts/Baker/Pastry Chef	Argosy University-The Art Institute of California-Hollywood	17	17	11	15
		Argosy University-The Art Institute of California-Los Angeles	28	19	11	19

CIP Code	Program	College	2014-2015 Awards	2015-2016 Awards	2016-2017 Awards	3-Year Award Average
		Argosy University-The Art Institute of California-Orange County	55	35	17	36
		Le Cordon Bleu College of Culinary Arts-Pasadena	183	202	181	189
12.0503	Culinary Arts/Chef Training	Argosy University-The Art Institute of California-Hollywood	37	26	22	28
		Argosy University-The Art Institute of California-Los Angeles	58	29	21	36
		Argosy University-The Art Institute of California-Orange County	76	43	27	49
		Hacienda La Puente Adult Education	19	22	23	21
		Le Cordon Bleu College of Culinary Arts-Pasadena	499	474	378	450
12.0504	Restaurant, Culinary, and Catering Management/Manager	Argosy University-The Art Institute of California-Hollywood	8	9	8	8
		Argosy University-The Art Institute of California-Los Angeles	8	11	5	8
		Argosy University-The Art Institute of California-Orange County	11	16	10	12
12.0505	Food Preparation/Professional Cooking/Kitchen Assistant	Baldwin Park Adult & Community Education	28	31	25	28
19.0501	Foods, Nutrition, and Wellness Studies, General	Brandman University	8	4	8	7
Total/Average			1,035	938	747	907

Appendix A: Occupational demand and wage data by county

Exhibit 5. 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 Food Preparation and Serving Workers (35-1012)	25,086	28,265	3,179	13%	4,713	\$14.02	\$16.93	\$22.40
Food Service Managers (11-9051)	15,509	16,335	826	5%	2,018	\$16.00	\$23.32	\$33.77
Chefs and Head Cooks (35-1011)	7,061	7,533	472	7%	1,049	\$14.35	\$22.06	\$33.04
Dietetic Technicians (29-2051)	1,637	1,757	120	7%	161	\$13.11	\$14.68	\$20.22
Total	49,293	53,890	4,597	9%	7,941			

Exhibit 6. Orange 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 Food Preparation and Serving Workers (35-1012)	9,280	10,467	1,187	13%	1,746	\$13.30	\$15.99	\$21.02
Food Service Managers (11-9051)	5,269	5,598	329	6%	695	\$15.86	\$23.08	\$31.96
Chefs and Head Cooks (35-1011)	2,561	2,727	166	6%	379	\$15.14	\$21.83	\$32.06
Dietetic Technicians (29-2051)	442	474	32	7%	43	\$13.44	\$15.05	\$20.74
Total	17,552	19,266	1,714	10%	2,864			

Exhibit 7. Los Angeles and Orange Counties

Occupation (SOC)	2019 Jobs	2024 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Typical Entry-Level Education	On-The-Job Training & Work Experience
First-Line Supervisors of Food Preparation and Serving Workers (35-1012)	34,366	38,732	4,366	13%	6,459	HS diploma or equivalent	None & Less than 5 years
Food Service Managers (11-9051)	20,778	21,933	1,155	6%	2,713	HS diploma or equivalent	None & Less than 5 years
Chefs and Head Cooks (35-1011)	9,622	10,260	638	7%	1,428	HS diploma or equivalent	None & 5 years or more
Dietetic Technicians (29-2051)	2,079	2,231	152	7%	205	Associate degree	None & None
Total	66,845	73,156	6,311	9%	10,805		

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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