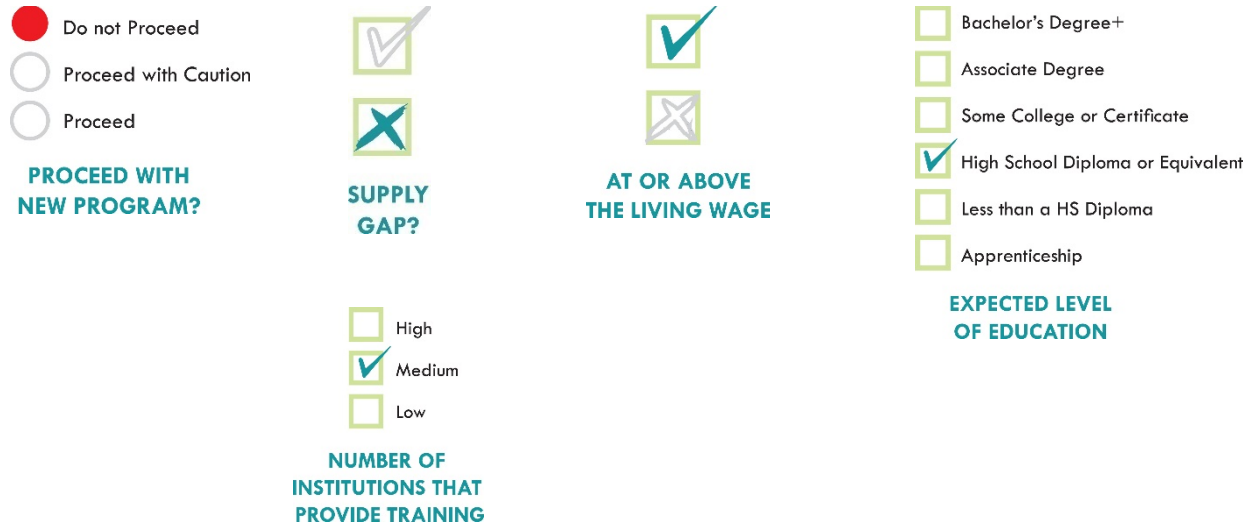


Culinary Arts

Labor Market Analysis for Noncredit Programs: San Diego County

September 2019

Summary



This report provides labor market information for occupation(s) selected by San Diego Continuing Education for its *Culinary Arts* program. The training provided by this program is likely to lead to employment as *Chefs and Head Cooks*. According to available labor market information, the occupation has a labor market demand of 235 annual job openings, while average demand for an occupation in San Diego County is 277 annual job openings. Three community colleges supply the region with 149 for-credit awards: Grossmont College, San Diego Mesa College, and Southwestern College. While these colleges offer associate degrees, they awarded more certificates than associate degrees. More specifically, “Certificates 30 to < 60 units” has the largest number of awards over the past three program years. Only San Diego Continuing Education supplies noncredit awards for this occupation, which averaged 100 awards over the same period. In short, the region supplies 249 for-credit and noncredit awards for 235 annual job openings, suggesting that there is a labor market oversupply. This brief recommends not to proceed with a new program because of a potential labor market oversupply. However, entry-level and median wages are above the living wage, suggesting that students who successfully complete a program and obtain employment in a related field may earn a living wage. The highest expected level of education for this occupation is a high school diploma or equivalent.

Introduction

This report provides labor market information (LMI) in San Diego County for occupations related to the six-digit Taxonomy of Programs¹ (TOP) code, Culinary Arts (TOP 130630). The purpose of this brief is to assist noncredit program providers in the region, such as San Diego Continuing Education (SDCE), with program development and review. SDCE identified one occupation from the Standard Occupational Classification (SOC)² system for *Culinary Arts*, which will be the focus of this report:

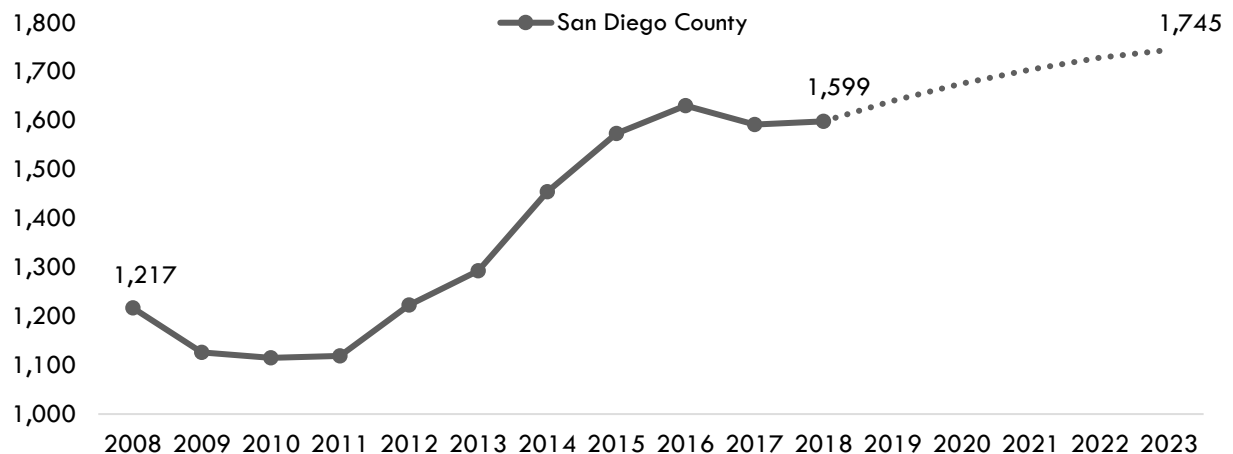
Chefs and Head Cooks (SOC 35-1011): Direct and may participate in the preparation, seasoning, and cooking of salads, soups, fish, meats, vegetables, desserts, or other foods. May plan and price menu items, order supplies, and keep records and accounts. Sample reported job titles include:

- Sous Chef
- Kitchen Manager
- Corporate Executive Chef
- Banquet Chef
- Head Cook
- Executive Chef (Ex Chef)
- Executive Sous Chef
- Chef
- Line Cook
- Cook

Projected Occupational Demand

Between 2018 and 2023, *Chefs and Head Cooks* are projected to increase by 146 net jobs or 9 percent (Exhibit 1). Employers in San Diego County will need to hire 235 workers annually to fill new jobs and backfill jobs due to attrition caused by turnover and retirement, for example.

Exhibit 1: Number of Jobs for Chefs and Head Cooks (2008-2023)³



¹ Taxonomy of Programs (TOP) is a system of codes used by the California Community Colleges for the purpose of collecting, calculating, or disseminating data about similar training programs.

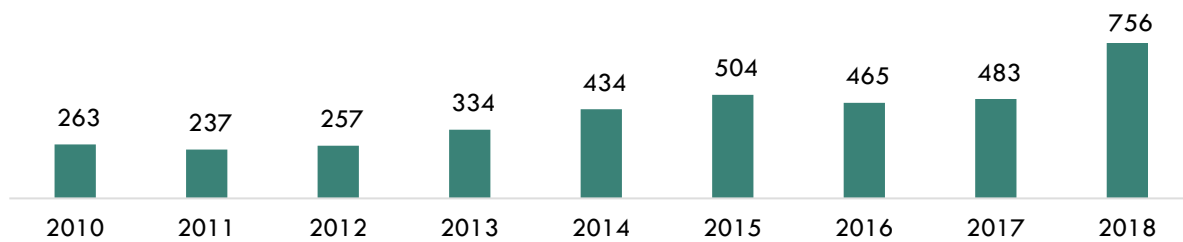
² The Standard Occupational Classification (SOC) system is used by federal statistical agencies to classify workers into occupational categories for the purpose of collecting, calculating or disseminating data. [bls.gov/soc](https://www.bls.gov/soc).

³ Emsi 2019.03; QCEW, Non-QCEW, Self-Employed.

Online Job Postings

This report analyzes not only historical and projected (traditional LMI) data, but also recent data from online job postings (real-time LMI). Online job postings may provide additional insight about recent changes in the labor market demand that are not captured by historical data. Between 2010 and 2018, there was an average of 414 online job postings per year for *Chefs and Head Cooks* in San Diego County (Exhibit 2).

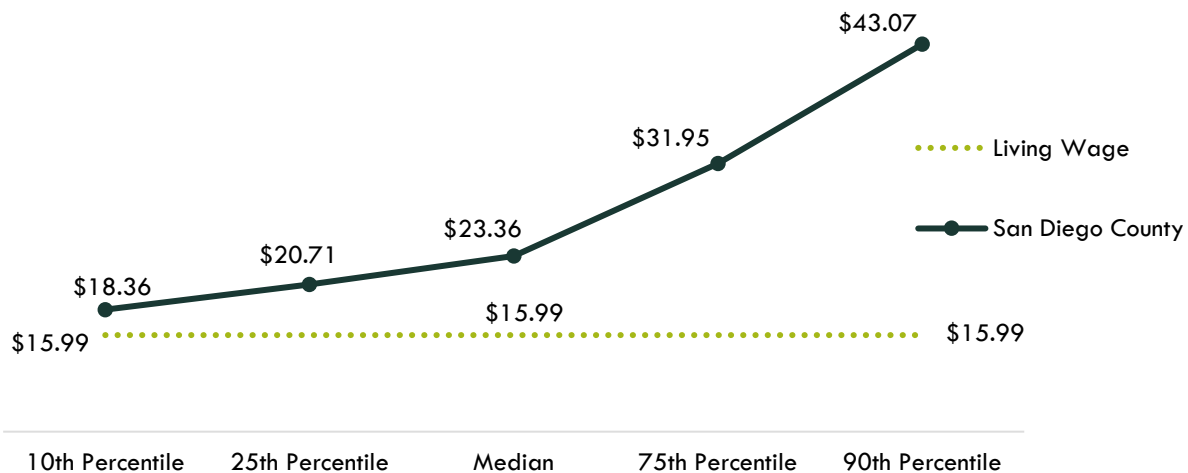
Exhibit 2: Number of Online Job Postings for Chefs and Head Cooks in San Diego County (2010-2018)⁴



Earnings

Chefs and Head Cooks receive median hourly earnings of \$23.36; this is more than the living wage for a single adult in San Diego County, which is \$15.99 per hour (Exhibit 3).⁵

Exhibit 3: Hourly Earnings⁶ for Chefs and Head Cooks in San Diego County⁷



⁴ Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2010-2018.

⁵ "California Family Needs Calculator." Insight Center for Community Economic Development, last updated 2018. insightccd.org/2018-family-needs-calculator.

⁶ 10th and 25th percentiles could be considered entry-level wages, and 75th and 90th percentiles could be considered experienced wages for individuals who may have been in the occupation longer, received more training than others, etc.

⁷ Emsi 2019.03; QCEW, Non-QCEW, Self-Employed.

Educational Supply

Educational supply for an occupation can be estimated by analyzing the number of awards conferred by a course or program in related Taxonomy of Programs (TOP) or Classification of Instructional Programs (CIP) codes.⁸ According to TOP and CIP⁹ data, three community colleges supply the region with for-credit awards for Culinary Arts (TOP 130630): Grossmont College, San Diego Mesa College, and Southwestern College (Exhibit 4a).

Exhibit 4a: Number of Awards (Certificates and Degrees) Conferred by Postsecondary Institutions (Program Years 2015-16 through 2017-18)

College	Award Type	PY 15-16	PY 16-17	PY 17-18	3-Year Avg
Grossmont	Associate of Science (A.S.) degree	23	23	19	22
	Certificate 30 to < 60 units	27	32	17	25
	Certificate 12 to < 18 units	29	68	27	41
	Total	79	123	63	88
San Diego Mesa	Associate of Science (A.S.) degree	18	22	16	19
	Certificate 30 to < 60 units	29	21	19	23
	Certificate 6 to < 18 units	1	0	0	0
	Total	48	43	35	42
Southwestern	Associate of Science (A.S.) degree	7	9	7	8
	Certificate 30 to < 60 units	3	5	2	3
	Certificate 18 to < 30 units	3	4	5	4
	Certificate 6 to < 18 units	0	5	5	3
	Total	13	23	19	18
Total		140	189	117	149*

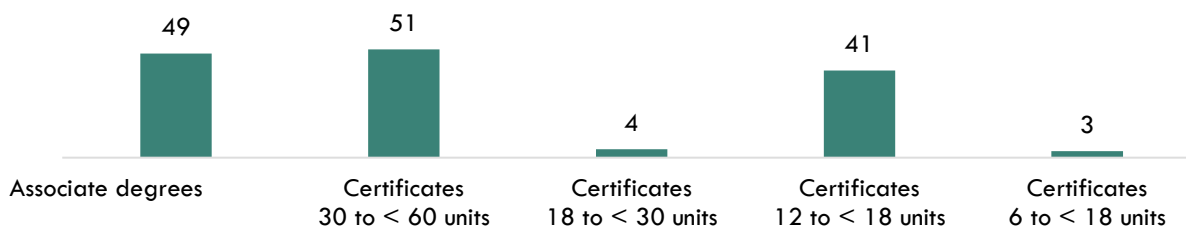
Note: The numbers may not add up exactly due to rounding.

⁸ TOP data comes from the California Community Colleges Chancellor's Office MIS Data Mart (datamart.cccco.edu) and CIP data comes from the Integrated Postsecondary Education Data System (nces.ed.gov/ipeds/use-the-data)

⁹ There are four CIP codes related to Culinary Arts (TOP 130630): Cooking and Related Culinary Arts, General (CIP 120500), Baking and Pastry Arts/Baker/Pastry Chef (CIP 120501), Culinary Arts/Chef Training (CIP 120503), and Food Preparation/Professional Cooking/Kitchen Assistant (CIP 120505).

Broken down by award type, the colleges supplied the most awards in certificates with 30 to < 60 units (51), followed by associate degrees (49), and so forth (Exhibit 4b).

Exhibit 4b: Total Number of Awards by Type for Culinary Arts TOP 130630 in San Diego County (Three-Year Average 2015-16 through 2017-18)



In terms of noncredit awards, only San Diego Continuing Education provides noncredit awards for Culinary Arts (TOP 130630), with an average of 100 noncredit awards between program years 2015-16 and 2017-18 (Exhibit 5).

Exhibit 5: Number of Noncredit Awards (Certificates and Degrees) Conferred by SDCE (Program Years 2015-16 through 2017-18)

Program Title	Award Type	PY 15-16	PY 16-17	PY 17-18	3-Year Avg
Culinary Arts Advanced; Culinary Arts and Sciences; Culinary Arts; Professional Bakeshop Skills	Program Award	146	74	80	100

Demand vs. Supply

In short, the region supplies 249 for-credit and noncredit awards for 235 annual job openings, suggesting that there is a labor market oversupply (Exhibit 6).

Exhibit 6: Labor Demand (Annual Openings) Compared with Labor Supply (Average Annual Awards)

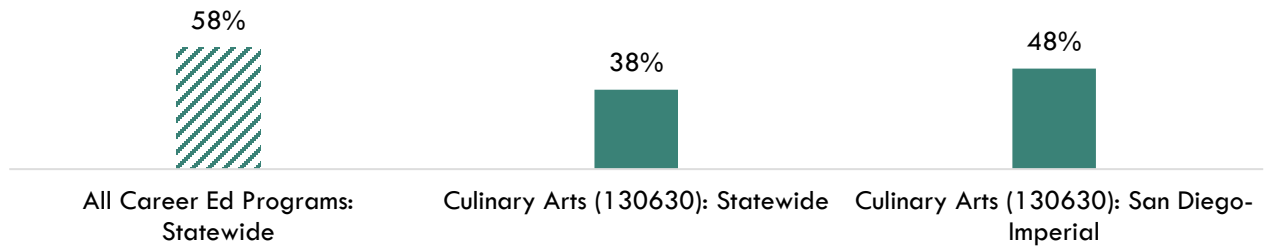
TOP6 Program	Demand (Annual Openings)	Supply (Total Annual Average Supply)		Supply Gap or Oversupply
		Noncredit	For-Credit	
Culinary Arts (TOP 130630)	235	100	149	14

Please note: This is a basic analysis of supply and demand of labor. The data does not include workers currently in the labor force who could fill these positions or workers who are not captured by publicly available data. This data should be used to discuss the potential gaps or oversupply of workers; however, it should not be the only basis for determining whether or not a program should be developed.

Student Outcomes and Regional Comparisons

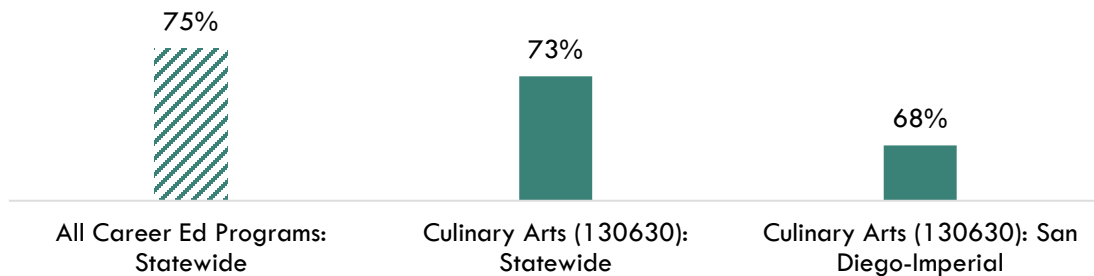
According to the California Community Colleges LaunchBoard, 48 percent of students in the San Diego-Imperial region earned a living wage after completing a Culinary Arts (130630) program, compared to 38 percent statewide and 58 percent of students in Career Education programs in general across the state (Exhibit 7a).

Exhibit 7a: Proportion of Students Who Earned a Living Wage, PY2015-16¹⁰



According to the California Community Colleges LaunchBoard, 68 percent of students in the San Diego-Imperial region obtained a job closely related to their field of study after completing a Culinary Arts (130630) program, compared to 73 percent statewide and 75 percent of students in Career Education programs in general across the state (Exhibit 7b).

Exhibit 7b: Percentage of Students in a Job Closely Related to Field of Study, PY2014-15¹¹



¹⁰ Among completers and skills builders who exited, the proportion of students who attained a living wage.

¹¹ Most recent year with available data is Program Year 2014-15. Percentage of Students in a Job Closely Related to Field of Study: Among students who responded to the CTEOS, the percentage reporting employment in the same or similar field as their program of study.

Top Employers and Work Locations

Between January 1, 2016 and December 31, 2018, the top five employers in San Diego County for this occupation were [Benihana](#), [Hilton Hotel Corporation](#), [Omni Hotel Corporation](#), [Sodexo](#), and [Compass Group](#) (Exhibit 8).

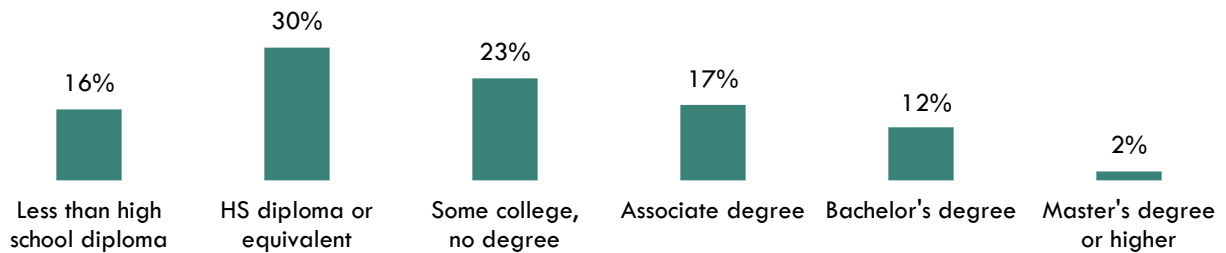
Exhibit 8: Top Employers in San Diego County for *Chefs and Head Cooks*¹²

Top Employers	
<ul style="list-style-type: none"> • Benihana • Hilton Hotel Corporation • Omni Hotel Corporation • Sodexo • Compass Group 	<ul style="list-style-type: none"> • Destination Hotels & Resorts • Marriott International Incorporated • Nordstrom • Fax Restaurant Concepts • Fairmont Hotels & Resorts

Skills, Education, and Certifications

Exhibit 9a indicates the educational attainment for the occupation found currently in the national labor force. There is no typical on-the-job training for this occupation. The typical entry-level education is [high school diploma or equivalent](#).¹³

Exhibit 9a: National Educational Requirements for *Chefs and Head Cooks*¹⁴



¹² Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2016-2018.

¹³ Emsi 2019.03; QCEW, Non-QCEW, Self-Employed.

¹⁴ Emsi 2019.03; QCEW, Non-QCEW, Self-Employed.

Similarly, based on online job postings between January 1, 2016 and December 31, 2018, the top listed educational requirement for *Chefs and Head Cooks* was a [high school diploma or vocational training](#) (Exhibit 9b).¹⁵

Exhibit 9b: Educational Requirements for Chefs and Head Cooks in San Diego County in Online Job Postings¹⁶

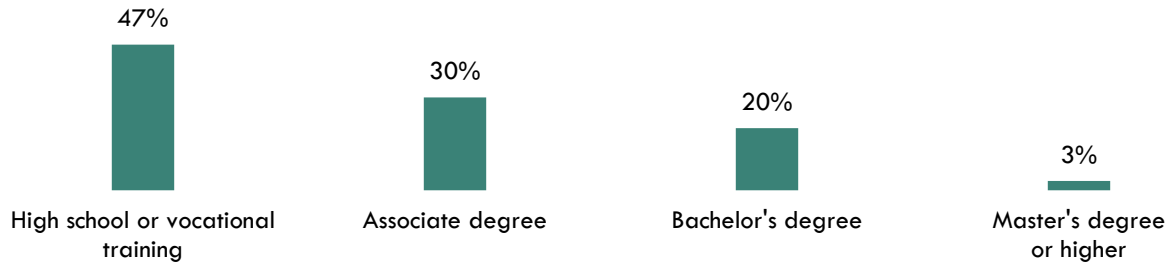


Exhibit 10 lists the top specialized, soft, and software skills that appeared in online job postings between January 1, 2016 and December 31, 2018.

Exhibit 10: Top Skills for Chefs and Head Cooks in San Diego County¹⁷

Specialized Skills	Soft Skills	Software Skills
<ul style="list-style-type: none"> • Cooking • Scheduling • Cost Control • Food Preparation • Budgeting 	<ul style="list-style-type: none"> • Communication Skills • Planning • Physical Abilities • Organizational Skills • English 	<ul style="list-style-type: none"> • Microsoft Excel • Microsoft Word • Microsoft PowerPoint • Facebook • Word Processing

¹⁵ Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2016-2018.

¹⁶ "Educational Attainment for Workers 25 Years and Older by Detailed Occupation," Bureau of Labor Statistics, last modified October 18, 2018. bls.gov/emp/tables/educational-attainment.htm.

¹⁷ Burning Glass Technologies, "Labor Insight Real-Time Labor Market Information Tool." 2016-2018.

Prepared by:

Tina Ngo Bartel, Director

John Edwards, Research Analyst

San Diego-Imperial Center of Excellence for Labor Market Research

tngobartel@miracosta.edu

jedwards@miracosta.edu



Important Disclaimers

All representations included in this report have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. This study examines the most recent data available at the time of the analysis; 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 the report 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.