

Labor Market Analysis for CTE Review:
 1006.00/Technical Theater
 CIP: 50.0502–Technical Theatre/Theatre Design and
 Technology | CIP: 50.0507–Directing and Theatrical Production
 (*Technical Theatre Certificate*) (*Lighting Design and Technology
 Certificate*) (*Costume Design and Technology Certificate*)
 Orange County Center of Excellence, March 2026



Education Code Title 3. Division 7. Part 48. Chapter 1. Article 1. 78016 (a) states that every community college vocational or occupational program must be reviewed every two years to ensure continued alignment with regional labor market needs.¹ Because a CTE review evaluates an existing program, additional supply will not be added.

Summary

The Orange County Center of Excellence for Labor Market Research (OC COE) prepared this report to determine whether there is a supply gap in the Los Angeles/Orange County regional labor market related to four occupations:

- Below Middle-Skill – denoted with an asterisk (*) throughout this report
 - *Lighting Technicians (27-4015)**
 - *Costume Attendants (39-3092)**
- Middle-Skill
 - *Sound Engineering Technicians (27-4014)*
 - *Makeup Artists, Theatrical and Performance (39-5091)*

Exhibit 1 lists the occupational demand, supply, typical entry-level education, and educational attainment for the occupations included in this report.

Exhibit 1: Labor Market Summary

Occupation (SOC)	Demand (Annual Openings)	Supply (CC and Non-CC)	Entry-Level Hourly Earnings (25th Percentile)	Typical Entry-Level Education	Community College Educational Attainment
Lighting Technicians (27-4015)*	LA: 174	LA: 559	OC: \$22.29	High school diploma or equivalent	39%
	OC: 22	OC: 312			
	TTL: 197	TTL: 871			
Costume Attendants (39-3092)*	LA: 251	LA: 0	OC: \$23.63	High school diploma or equivalent	34%
	OC: 61	OC: 0			
	TTL: 312	TTL: 0			
Below Middle-Skill Total	509	871	N/A	N/A	N/A
	LA: 276	LA: 628	OC: \$20.75		39%

¹ "California Code, EDC 78016." California Legislative Information. Accessed March 17, 2025.
https://leginfo.ca.gov/faces/codes_displaySection.xhtml?sectionNum=78016.&lawCode=EDC.

Occupation (SOC)	Demand (Annual Openings)	Supply (CC and Non-CC)	Entry-Level Hourly Earnings (25th Percentile)	Typical Entry-Level Education	Community College Educational Attainment
Sound Engineering Technicians (27-4014)	OC: 29 TTL: 305	OC: 96 TTL: 724		Postsecondary non-degree award	
Makeup Artists, Theatrical and Performance (39-5091)	LA: 130 OC: 24 TTL: 153	LA: 0 OC: 0 TTL: 0	OC: \$29.68	Postsecondary non-degree award	38%
Middle-Skill Total	458	724	N/A	N/A	N/A
Total	966	1,595	N/A	N/A	N/A

Demand

- The number of jobs related to middle and below-middle skill technical theatre occupations is projected to decrease 7% through 2029, equating to 966 annual job openings.
- The hourly entry-level wage for middle and below-middle skill technical theatre occupations ranges from \$20.75 to \$29.68 in Orange County; 83% of annual openings have entry-level wages below the Self-Sufficiency Standard living wage.
- There were 747 online job postings for the middle and below-middle skill technical theatre occupations over the past 12 months. The highest number of postings were for makeup artists, lash artists, and beauty stylists.
- The typical entry-level education for these technical theatre occupations ranges from a high school diploma or equivalent to a postsecondary non-degree award.
- Between 34% and 39% of workers in the field have completed some college or an associate degree as their highest level of educational attainment.

Supply

- Between 2021 to 2024, an average of 1,048 awards were conferred by 23 community colleges for these occupations in Los Angeles and Orange counties.
 - Community colleges conferred an average of 74 awards applicable toward the above middle-skill occupation.
- From 2020 to 2023, non-community college institutions conferred an average of 547 awards for these occupations.
 - Non-community colleges conferred an average of 422 awards applicable towards the above middle-skill occupation.
- In the 2022-23 academic year, Orange County community college students that graduated technical theater programs had a median annual wage of \$30,932 (\$14.87 per hour) post-exit.
- Due to a low number of technical theater students in the 2021-22 academic year, student outcome data is not available for students that exited their programs reported working a job closely related to their field of study in Orange County.

Above Middle-Skill Occupations

Since the related program may serve as a stepping-stone toward further education and training, the following above middle-skill occupation, which requires a bachelor's degree or higher, is included in this report:

- Above Middle-Skill – denoted with a caret (^) throughout this report
 - *Set and Exhibit Designers (27-1027)*[^]

Exhibit 2 lists the occupational demand, supply, typical entry-level education, and educational attainment for the above middle-skill occupations included in this report.

Exhibit 2: Labor Market Summary for Above Middle-Skill Occupation

Occupation (SOC)	Demand (Annual Openings)	Supply (CC and Non-CC)	Entry-Level Hourly Earnings (25th Percentile)	Typical Entry-Level Education	Community College Educational Attainment
Set and Exhibit Designers (27-1027) [^]	LA: 177 OC: 29	LA: 442 OC: 55	OC: \$24.97	Bachelor's degree	29%
Above Middle-Skill Total	205	497	N/A	N/A	N/A

Demand

Occupational Projections

Exhibit 3 shows the annual percent change in jobs for these technical theatre occupations from 2019 through 2029.

Exhibit 3: Annual Percent Change in Jobs for Technical Theatre Occupations, 2019-2029

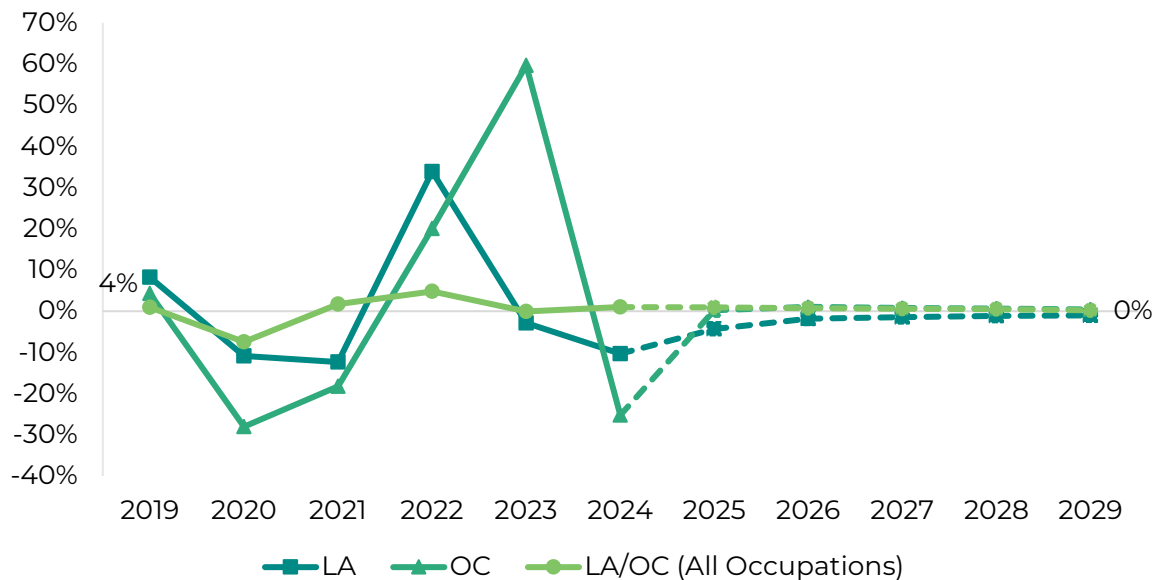


Exhibit 4 shows the five-year occupational demand projections for the below middle-skill technical theatre occupations in Los Angeles and Orange counties.

Exhibit 4: Below Middle-Skill Occupational Demand in Los Angeles and Orange Counties²

Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
Los Angeles	3,417	3,054	(364)	-11%	425
Orange	501	524	23	5%	84
Total	3,918	3,577	(341)	-9%	508

Exhibit 5 shows the five-year occupational demand and projections for the middle-skill technical theatre occupations in Los Angeles and Orange counties.

Exhibit 5: Middle-Skill Occupational Demand in Los Angeles and Orange Counties

Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
Los Angeles	4,473	4,157	(316)	-7%	406
Orange	485	510	25	5%	52
Total	4,959	4,668	(291)	-6%	458

Exhibit 6 shows the five-year occupational demand and projections for the above middle-skill technical theatre occupation in Los Angeles and Orange counties.

Exhibit 6: Above Middle-Skill Occupational Demand in Los Angeles and Orange Counties

Geography	2024 Jobs	2029 Jobs	2024-2029 Change	2024-2029 % Change	Annual Openings
Los Angeles	2,479	2,184	(295)	-12%	177
Orange	364	359	(4)	-1%	29
Total	2,843	2,544	(299)	-11%	205

² 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

Exhibit 7 shows the wage range for these technical theatre occupations in Orange County and how it compares to the regional living wage.

Exhibit 7: Wages by Occupation in Orange County

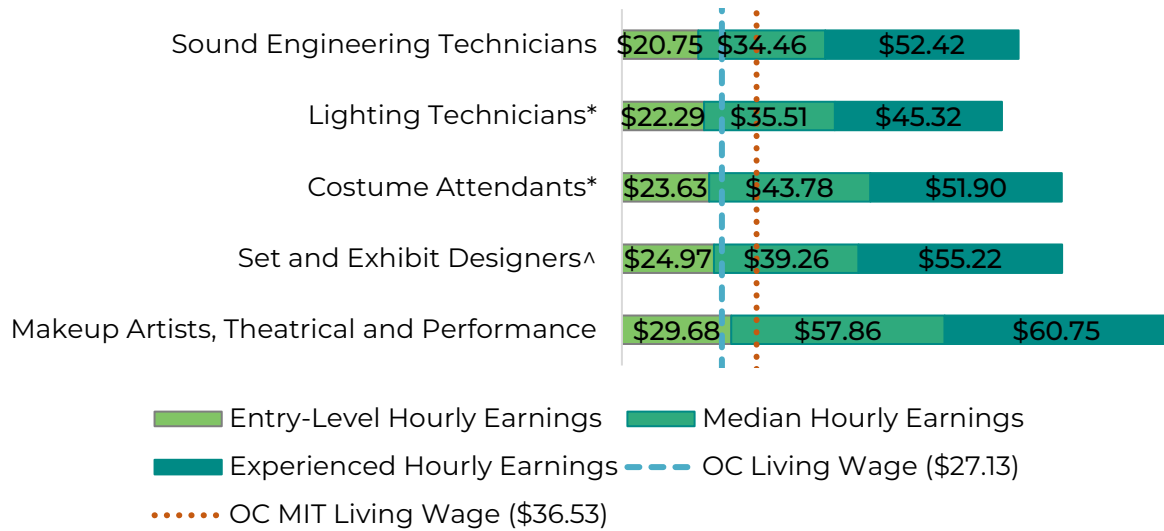
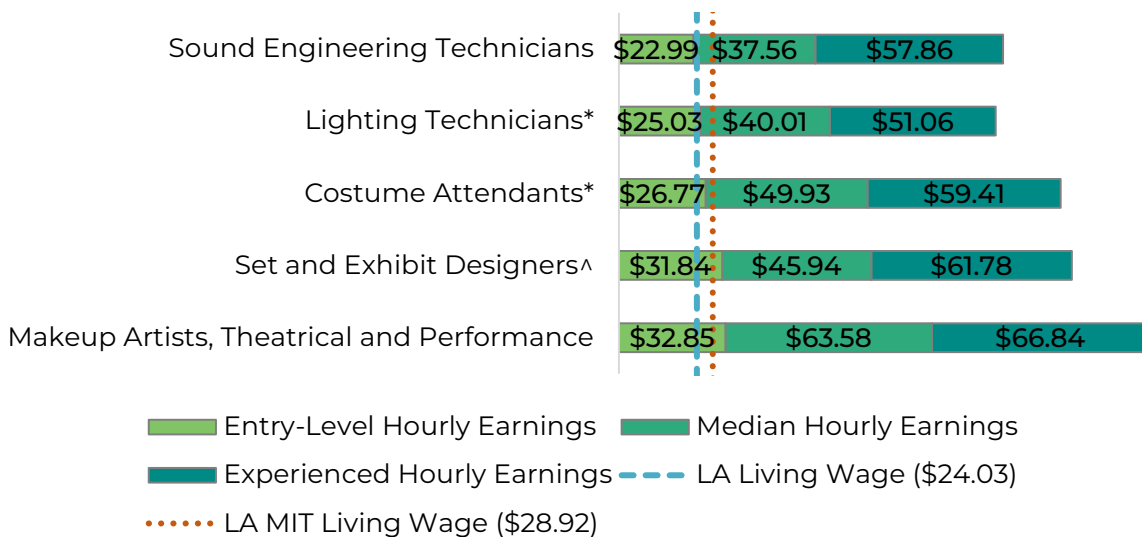


Exhibit 8 shows the wage range for these technical theatre occupations in Los Angeles County and how it compares to the regional living wage.

Exhibit 8: Wages by Occupation in Los Angeles County



Resilient Jobs and U.S. News & World Report Best Jobs

Exhibit 9 shows if each occupation is considered an Orange County Great Recession-Resilient, COVID-19 Pandemic Recession-Resilient Job, or a 2025 U.S. News & World Report (USN&WR) Best Job.

Exhibit 9: Resilient Jobs and USN&WR Best Jobs Designations

Occupation	Great Recession-Resilient Job	COVID-19 Pandemic Recession-Resilient Job	2025 USN&WR Best Job
Makeup Artists, Theatrical and Performance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lighting Technicians*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Costume Attendants*	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sound Engineering Technicians	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Set and Exhibit Designers^	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Job Postings

Exhibit 10 shows the number of job postings for these technical theatre occupations.

Exhibit 10: Number of Job Postings by Occupation (n=1,811)

Occupation	Job Postings	Percentage of Job Postings
Set and Exhibit Designers^	512	28%
Makeup Artists, Theatrical and Performance	479	26%
Lighting Technicians*	419	23%
Sound Engineering Technicians	268	15%
Costume Attendants*	133	7%
Total Postings	1,811	100%

Job Postings for Below Middle-Skill Occupations

The top job titles for the below middle-skill technical theater occupations in the region, by number of job postings, are shown in Exhibit 11.

Exhibit 11: Top Job Titles by Number of Job Postings (n=552)

Employer	Job Postings	Percentage of Job Postings
Home Theater Specialists	64	12%
Lighting Technicians	41	7%
Theater Technicians	15	3%
Stage Technicians	12	2%
Lighting Quotations Specialists	9	2%
Wardrobe Attendants	9	2%

Employer	Job Postings	Percentage of Job Postings
Home Builders	9	2%
Entertainment Technicians	8	1%
Lighting Service Technicians	8	1%
Wardrobe Assistants	8	1%

The top employers for below middle-skill technical theatre occupations in the region, by number of job postings, are shown in Exhibit 12.

Exhibit 12: Top Employers by Number of Job Postings (n=552)

Employer	Job Postings	Percentage of Job Postings
Best Buy	57	10%
Six Flags Entertainment Corporation	10	2%
South Orange County Community College District	9	2%
Goodwill	9	2%
California State University-Northridge	8	1%
NBC	8	1%
Antelope Valley College	8	1%
Chapman University	8	1%
Knott's Berry Farm	8	1%
Wisconsin State Journal	8	1%

The top specialized, soft, and computer skills for these below middle-skill technical theatre occupations listed by those most frequently mentioned in job postings (denoted in parentheses) are shown in Exhibit 13.

Exhibit 13: Top Skills by Number of Job Postings (n=552)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Rigging (81)	Customer Service (201)	Microsoft Office (43)
Lifting Ability (75)	Communication (188)	Microsoft Excel (37)
Product Knowledge (70)	Troubleshooting (Problem Solving) (137)	AutoCAD (25)
Stagecraft (56)	Sales (135)	Microsoft Outlook (20)
Lighting Systems (52)	Operations (112)	Microsoft Word (17)
Technology Solutions (52)	Management (90)	Vectorworks (17)
Inventory Staging (51)	Detail Oriented (88)	Adobe Photoshop (12)
Costumes (47)	Professionalism (62)	Microsoft PowerPoint (12)
Costume Design (44)	Problem Solving (59)	Productivity Software (11)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Carpentry (39)	Leadership (54)	Spreadsheets (11)

Job Postings for Middle-Skill Occupations

The top job titles for the middle-skill technical theater occupations in the region, by number of job postings, are shown in Exhibit 14.

Exhibit 14: Top Job Titles by Number of Job Postings (n=747)

Employer	Job Postings	Percentage of Job Postings
Makeup Artists	85	11%
Lash Artists	60	8%
Beauty Stylists	51	7%
Eyelash Technicians	40	5%
Specialty Beauty Advisors	34	5%
Sound Mixers	27	4%
Hair and Makeup Artists	18	2%
Sound Designers	14	2%
Audio Engineers	11	1%
Sound Recordist/recorders	10	1%

The top employers for these middle-skill technical theatre occupations in the region, by number of job postings, are shown in Exhibit 15.

Exhibit 15: Top Employers by Number of Job Postings (n=747)

Employer	Job Postings	Percentage of Job Postings
Target	82	11%
Airtasker	16	2%
Microart	11	1%
Sugared + Bronzed	9	1%
Meta	6	1%
Charlotte Tilbury Limited	5	1%
Glowell	5	1%
Deka Lash	4	1%
Tencent	4	1%
Salon Republic	4	1%

The top specialized, soft, and computer skills for these middle-skill technical theatre occupations listed by those most frequently mentioned in job postings (denoted in parentheses) are shown in Exhibit 16.

Exhibit 16: Top Skills by Number of Job Postings (n=747)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Visual Merchandising (92)	Communication (221)	Pro Tools (20)
Merchandising (89)	Customer Service (220)	Middleware (18)
Cash Register (85)	Sales (136)	Unreal Engine (17)
Inventory Management (85)	Operations (94)	Game Engine (12)
Effective Communication (83)	Detail Oriented (83)	Python (Programming Language) (9)
Promotional Strategies (82)	Ethical Standards And Conduct (82)	Zoom (Video Conferencing Tool) (9)
Eyelash Extensions (79)	Greeting Customers (76)	Unity Engine (8)
Technical Issues (70)	Teamwork (74)	Logic Pro (7)
Sanitation (59)	Presentations (71)	Microsoft Excel (7)
Cosmetics (43)	Creative Problem Solving (68)	TikTok (7)

Job Postings for Above Middle-Skill Occupations

The top job titles for the above middle-skill technical theatre occupations in the region, by number of job postings, are shown in Exhibit 17.

Exhibit 17: Top Job Titles by Number of Job Postings (n=512)

Employer	Job Postings	Percentage of Job Postings
Technical Designers	25	5%
Lighting Designers	18	4%
Designers	12	2%
Production Designers	10	2%
BIM Coordinators	8	2%
Exhibitors	8	2%
Museum Technicians	7	1%
BIM Managers	7	1%
Decorators	7	1%
Set Designers	7	1%

The top employers for these above middle-skill technical theatre occupations in the region, by number of job postings, are shown in Exhibit 18.

Exhibit 18: Top Employers by Number of Job Postings (n=512)

Employer	Job Postings	Percentage of Job Postings
Disney	28	5%
NBC	14	3%
Oc Fair & Event Center	14	3%
24 Seven Talent Ca	7	1%
24 Seven	6	1%
Officeuntitled	6	1%
Wise Auto Group	6	1%
Frame Company, S.R.O.	4	1%
Ihire	4	1%
Light Green International Co., Ltd	4	1%

The top specialized, soft, and computer skills for these above middle-skill technical theatre occupations listed by those most frequently mentioned in job postings (denoted in parentheses) are shown in Exhibit 19.

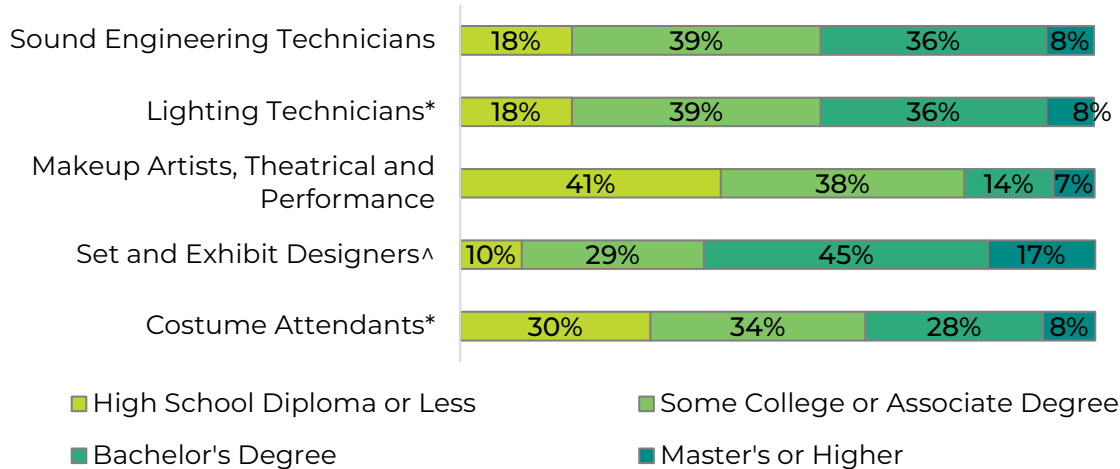
Exhibit 19: Top Skills by Number of Job Postings (n=512)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Project Management (75)	Communication (190)	Autodesk Revit (61)
Marketing (65)	Detail Oriented (88)	Adobe Photoshop (56)
Autodesk Revit (61)	Management (86)	AutoCAD (54)
Adobe Photoshop (56)	Sales (82)	Adobe Illustrator (50)
Workflow Management (55)	Coordinating (80)	Microsoft Office (49)
AutoCAD (54)	Leadership (78)	Adobe Creative Suite (44)
Adobe Illustrator (50)	Problem Solving (64)	Rhinoceros 3D (42)
Adobe Creative Suite (44)	Presentations (63)	SketchUp (3D Modeling Software) (42)
3D Modeling (42)	Operations (57)	Microsoft Excel (29)
SketchUp (3D Modeling Software) (42)	Research (54)	Autodesk Navisworks (23)

Educational Attainment

The Bureau of Labor Statistics (BLS) lists postsecondary non-degree awards for *makeup artists, theatrical and performance* and for *sound engineering technicians*, a high school diploma or equivalent for *costume attendants**, *lighting technicians**, and a bachelor's degree for *set and exhibit designers*[^]. Exhibit 20 shows the national-level educational attainment of workers in the field.

Exhibit 20: National-level Educational Attainment for Occupations



Of the cumulative job postings for these technical theatre occupations in Los Angeles and Orange counties that listed a minimum education requirement:

- 38% (28) of Below Middle-Skill Occupations Job Postings
 - 65% (126) requested a high school diploma or associate degree
 - 39% (76) requested a bachelor's degree
- 4% (194) of Middle-Skill Job Postings
 - 14% (4) requested a high school diploma or associate degree.
 - 82% (23) requested a bachelor's degree.
- 38% (207) of Above Middle-Skill Occupations Job Postings
 - 21% (41) requested a high school diploma or associate degree
 - 75% (146) requested a bachelor's degree

Educational Supply

Community College Supply

Exhibit 21 shows the three-year average number of awards conferred by community colleges in the related TOP codes:

- Radio and Television (0604.00)
- Radio (0604.10)
- Television (including combined TV/Film/Video) (0604.20)
- Commercial Music (1005.00)
- Technical Theater (1006.00)
- Applied Photography (1012.00)

No awards were conferred by community colleges in the related TOP code: Applied Design (1009.00).

The colleges with the most completions in the region are Saddleback (208), followed by Mt. San Antonio (102), and Fullerton (87). Over the past 12 months, there was one other related program recommendation request from regional community colleges.

Exhibit 21: Regional Community College Awards (Certificates and Degrees), 2021-24

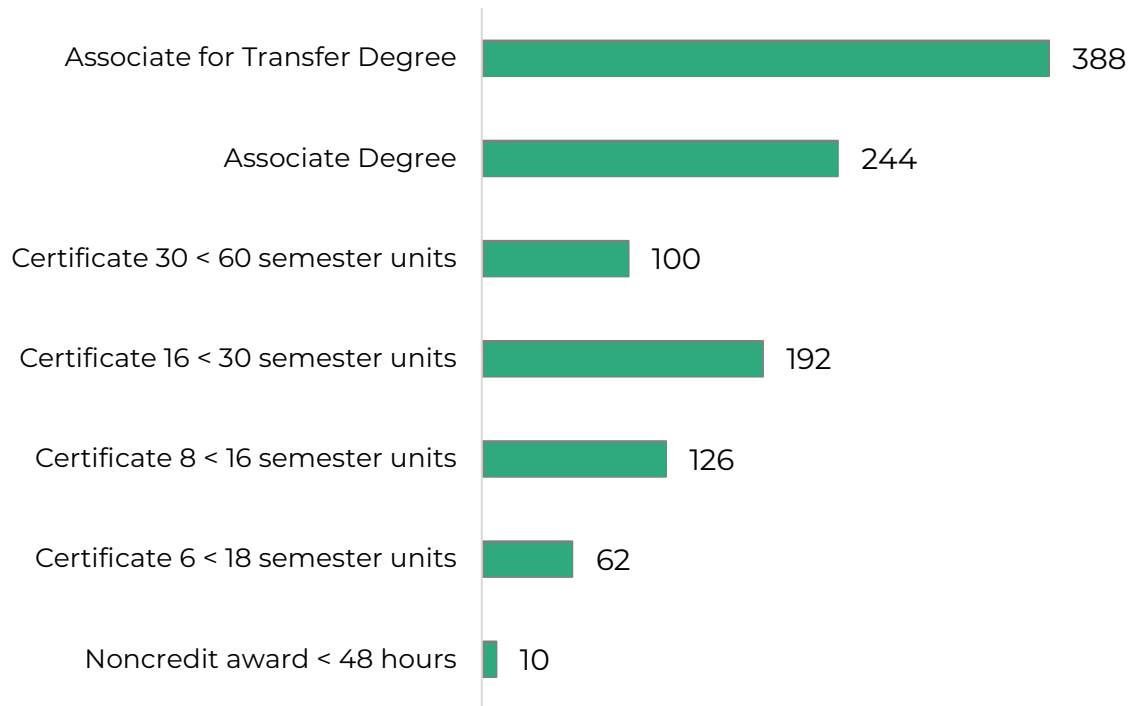
TOP Code	Program	College	2021-2022 Awards	2022-2023 Awards	2023-2024 Awards	3-Year Award Average
0604.00	Radio and Television	LA Valley	9	15	10	11
		Long Beach	7	9	14	10
		Mt San Antonio	0	1	0	0
		Santa Monica	8	5	16	10
		LA Subtotal	24	30	40	31
		Fullerton	1	1	2	1
		Saddleback	144	112	97	118
		OC Subtotal	145	113	99	119
Supply Subtotal/Average			169	143	139	150
0604.10	Radio	LA Valley	4	4	6	5
		Mt San Antonio	0	12	3	5
		Pasadena	1	2	8	4
		LA Subtotal	5	18	17	13
		Fullerton	0	3	5	3
		OC Subtotal	0	3	5	3
Supply Subtotal/Average			5	21	22	16
0604.20	Television (including combined TV/Film/Video)	Cerritos	13	11	11	12
		Citrus	0	0	5	2
		El Camino	32	25	36	31
		Glendale	25	27	23	25
		LA City	35	30	46	37
		LA Mission	0	1	3	1
		LA Pierce	31	31	28	30

TOP Code	Program	College	2021-2022 Awards	2022-2023 Awards	2023-2024 Awards	3-Year Award Average
		LA Valley	48	38	31	39
		Long Beach	49	43	65	52
		Mt San Antonio	50	78	57	62
		Pasadena	51	37	59	49
		Rio Hondo	0	0	4	1
		LA Subtotal	334	321	368	341
		Cypress	20	21	26	22
		Fullerton	55	54	53	54
		Orange Coast	46	38	52	45
		Saddleback	15	25	32	24
		Santa Ana	13	17	15	15
		OC Subtotal	149	155	178	161
		Supply Subtotal/Average			483	476
1005.00	Commercial Music	Cerritos	13	6	5	8
		Citrus	26	36	36	33
		Compton	0	1	5	2
		East LA	0	6	2	3
		LA City	25	11	19	18
		LA Harbor	7	4	2	4
		LA Pierce	0	1	0	0
		LA Valley	18	12	12	14
		Long Beach	0	0	1	0
		Pasadena	0	3	18	7
		Rio Hondo	1	8	27	12
		LA Subtotal	90	88	127	102
		Cypress	20	21	26	22
		Fullerton	55	54	53	54
		Orange Coast	46	38	52	45
		Saddleback	15	25	32	24
		Santa Ana	13	17	15	15
OC Subtotal	122	64	103	96		
Supply Subtotal/Average			212	152	230	198
1006.00	Technical Theater	Citrus	5	2	2	3
		East LA	32	13	38	28
		Glendale	2	0	1	1
		LA City	4	7	7	6

TOP Code	Program	College	2021-2022 Awards	2022-2023 Awards	2023-2024 Awards	3-Year Award Average
		LA Pierce	3	0	4	2
		LA Valley	1	2	0	1
		Mt San Antonio	0	2	1	1
		Pasadena	1	0	0	0
		Santa Monica	16	8	11	12
		LA Subtotal	64	34	64	54
		Cypress	6	2	6	5
		Fullerton	0	4	26	10
		Golden West	0	0	1	0
		Irvine	3	1	4	3
		Saddleback	3	2	1	2
		Santa Ana	2	0	0	1
		OC Subtotal	14	9	38	20
Supply Subtotal/Average			78	43	102	74
1012.00	Applied Photography	East LA	0	6	6	4
		El Camino	10	7	7	8
		Glendale	6	16	15	12
		LA City	8	6	19	11
		LA Mission	0	0	9	3
		LA Pierce	2	7	5	5
		LA Valley	3	11	6	7
		Mt San Antonio	32	30	39	34
		Pasadena	10	4	13	9
		Santa Monica	31	21	129	60
		LA Subtotal	102	108	248	153
		Cypress	2	7	5	5
		Fullerton	5	16	11	11
		Orange Coast	10	16	16	14
		OC Subtotal	17	39	32	29
Supply Subtotal/Average			119	147	280	182
Supply Total/Average			1,066	982	1,319	1,122

Exhibit 22 shows the annual average community college awards by type from 2021-22 to 2023-24.

Exhibit 22: Annual Average Community College Awards by Type, 2020-2023



Community College Student Outcomes

Exhibit 23 shows the Strong Workforce Program (SWP) metrics for technical theater programs in Rancho Santiago Community College District (RSCCD), the Orange County Region, and California.

Exhibit 23: Technical Theater (1006.00) Strong Workforce Program Metrics, 2021-24³

SWP Metric	RSCCD	OC Region	California
SWP Students	55	673	4,624
SWP Students Who Earned 9 or More Career Education Units in the District in a Single Year	Insufficient Data	24%	23%
SWP Students Who Completed a Noncredit CTE or Workforce Preparation Course	100%	91%	77%
SWP Students Who Earned a Degree or Certificate or Attained Apprenticeship Journey Status	Insufficient Data	Insufficient Data	82
SWP Students Who Transferred to a Four-Year Postsecondary Institution (2022-23)	Insufficient Data	21	248
SWP Students with a Job Closely Related to Their Field of Study (2021-22)	Insufficient Data	Insufficient Data	61%
Median Annual Earnings for SWP Exiting Students (2022-23)	\$31,592 (\$15.19)	\$30,932 (\$14.87)	\$26,338 (\$12.66)
Median Change in Earnings for SWP Exiting Students (2022-23)	-7%	37%	37%
SWP Exiting Students Who Attained the Living Wage (2022-23)	Insufficient Data	Insufficient Data	14%

³ All SWP metrics are for 2021-22 unless otherwise noted.

Non-Community College Supply

Exhibit 24 displays the annual and three-year average awards granted by these non-community college institutions between 2020 and 2023, the most available data, under the following related Classification of Instructional Programs (CIP) codes:

- Photographic and Film/Video Technology/Technician (10.0201)
- Radio and Television Broadcasting Technology/Technician (10.0202)
- Recording Arts Technology/Technician (10.0203)
- Design and Visual Communications, General (50.0401)
- Illustration (50.0410)
- Technical Theatre/Theatre Design and Technology (50.0502)
- Music Technology (50.0913)

No awards were conferred under the following related CIP codes: Make-Up Artist/Specialist (12.0406) and Audio Engineering Technology/Technician (15.0307).

Exhibit 24: Regional Non-Community College Awards, 2020-2023

CIP Code	Program	College	2020-2021 Awards	2021-2022 Awards	2022-2023 Awards	3-Year Award Average
10.0201	Photographic and Film/Video Technology/Technician	Chapman University	1	0	0	0
Supply Subtotal/Average			1	0	0	0
10.0202	Radio and Television Broadcasting Technology/Technician	Hollywood Cultural College	12	20	30	21
Supply Subtotal/Average			12	20	30	21
10.0203	Recording Arts Technology/Technician	California College of ASU	21	3	0	8
		California State University-Dominguez Hills	2	9	27	13
		Loyola Marymount University	12	13	11	12
		Mount Saint Mary's University	0	0	0	0
		Musicians Institute	48	31	59	46
Supply Subtotal/Average			83	56	97	79
50.0401	Design and Visual Communications, General	Azusa Pacific University	0	12	10	7
		Bethesda University	0	0	0	0
		Biola University	9	9	8	9
		California College of ASU	7	1	0	3
		California State Polytechnic University-Pomona	0	0	0	0

CIP Code	Program	College	2020-2021 Awards	2021-2022 Awards	2022-2023 Awards	3-Year Award Average
		FIDM-Fashion Institute of Design & Merchandising	69	57	40	55
		Gnomon	42	31	0	24
		Los Angeles Pacific College	1	1	1	1
		Otis College of Art and Design	30	39	42	37
		University of California-Los Angeles	0	1	0	0
		University of La Verne	0	0	0	0
		University of Southern California	30	49	62	47
Supply Subtotal/Average			188	200	163	184
50.0410	Illustration	Art Center College of Design	170	149	187	169
		Laguna College of Art and Design	24	35	40	33
Supply Subtotal/Average			194	184	227	202
50.0502	Technical Theatre/Theatre Design and Technology	California Institute of the Arts	34	22	17	24
		Chapman University	1	0	0	0
		Pepperdine University	3	1	3	2
		University of Southern California	10	8	9	9
		Vanguard University of Southern California	1	1	1	1
Supply Subtotal/Average			49	32	30	37
50.0913	Music Technology	California College of Music	3	3	6	4
		Los Angeles College of Music	19	14	14	16
		Los Angeles Film School	524	411	348	428
		Mount Saint Mary's University	0	0	0	0
		Whittier College	0	0	1	0
Supply Subtotal/Average			546	428	369	448
Supply Total/Average			1,073	920	916	970

Regional Demographics

This section examines demographic data for Orange County community college students in technical theater programs compared to the OC population, along with specific data for these technical theatre occupations, to identify potential diversity and equity issues addressable by community college programs.

Ethnicity

Exhibit 25 compares ethnicity.

Exhibit 25: Program and County Demographics by Ethnicity

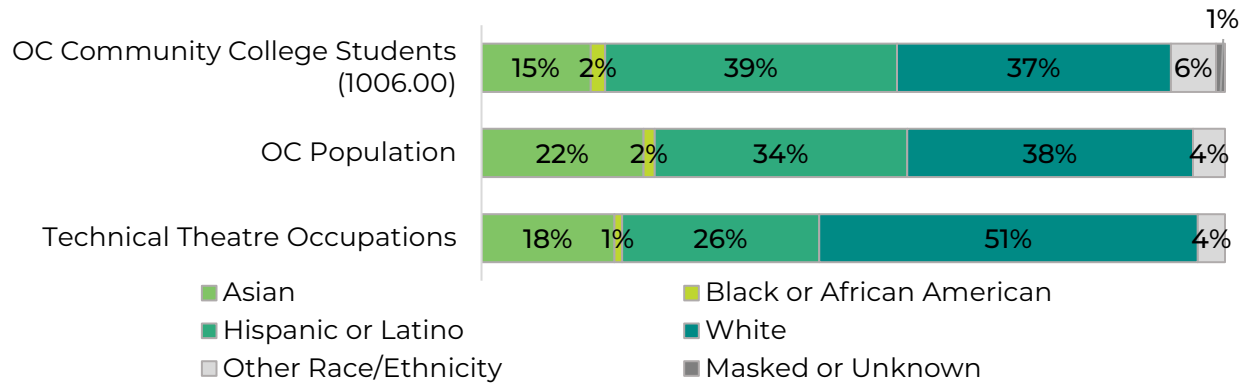
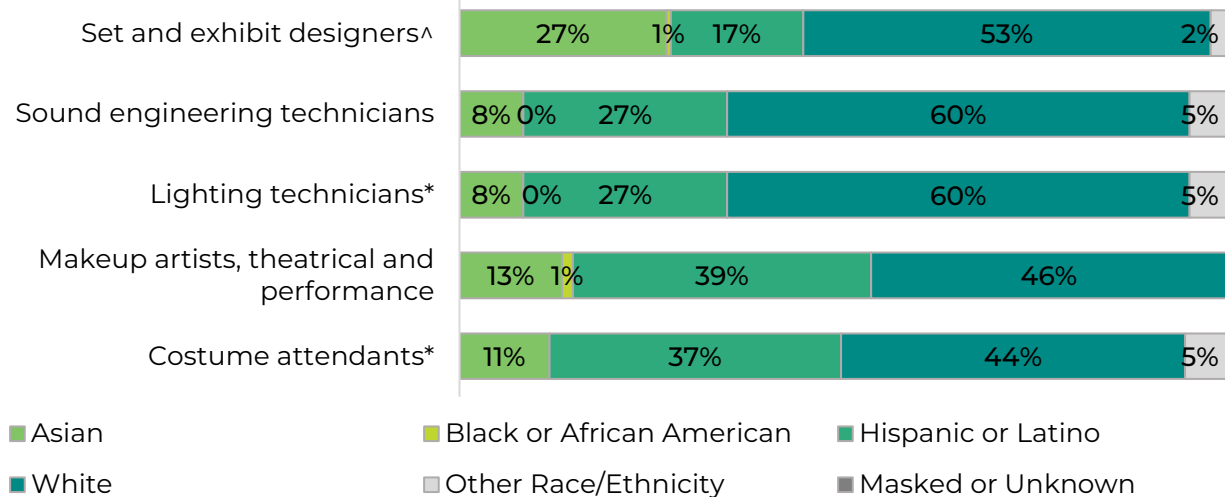


Exhibit 26 compares the disaggregated ethnicity data.

Exhibit 26: Disaggregated Ethnicity Data by Occupation



Age

Exhibit 27 compares the age.

Exhibit 27: Program and County Demographics by Age

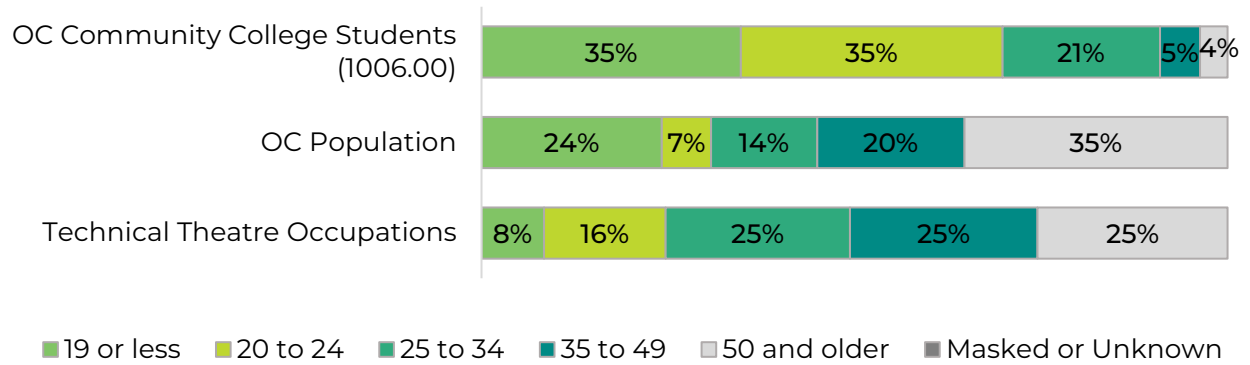
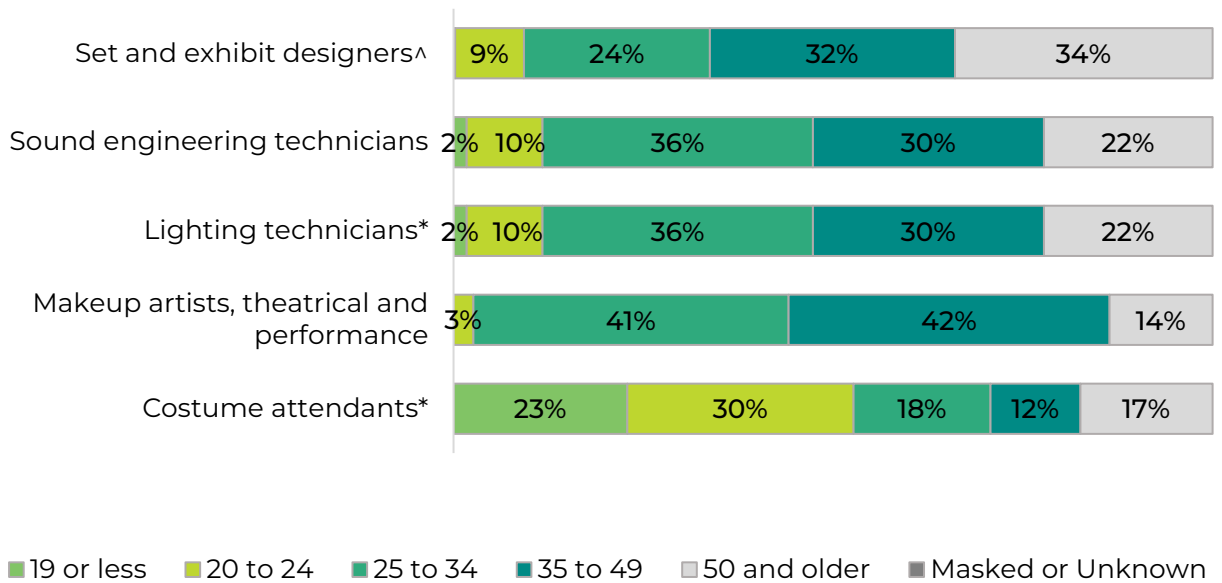


Exhibit 28 compares the disaggregated age data.

Exhibit 28: Disaggregated Age Data by Occupation



Sex

Exhibit 29 compares the sex.

Exhibit 29: Program and County Demographics by Sex

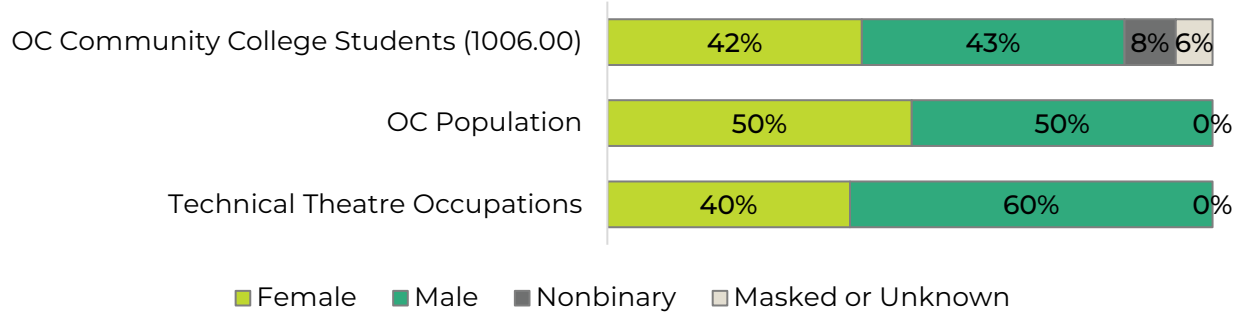
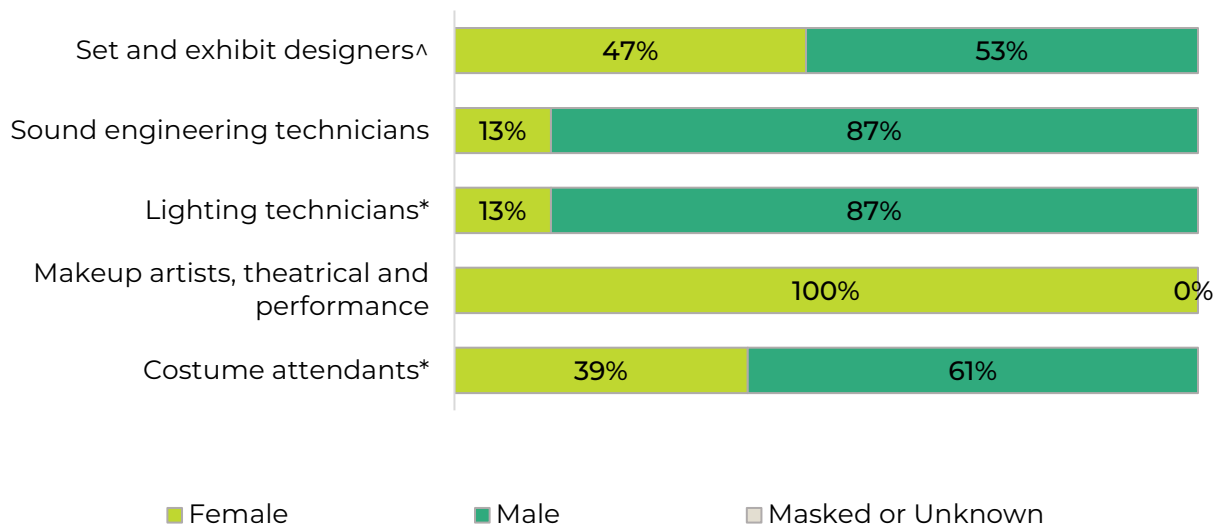


Exhibit 30 compares the disaggregated sex data.

Exhibit 30: Disaggregated Sex Data by Occupation



Appendix A: Methodology

OC COE prepared this report by analyzing occupational and educational program data. Occupational data comes from Lightcast, a labor market analytics firm which compiles information from the California Employment Development Department (EDD), U.S. Bureau of Labor Statistics (BLS), and other agencies. Analysis of emerging occupations is predicated on online job postings data combined with Occupational Information Network (O*NET) profile descriptions. Program supply data was sourced from the California Community Colleges Chancellor's Office Data Mart (MIS Data Mart) (datamart.cccco.edu) and the Integrated Postsecondary Education Data System (nces.ed.gov/ipeds/use-the-data), also known as IPEDS, which was integrated into the COE's Supply Table. (IPEDS).

Using a TOP-SOC crosswalk, the OC COE identified middle-skill jobs for which programs within these TOP codes train. Middle-skill jobs include:

- 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.

The OC COE determined labor market supply for each occupation (SOC code) by analyzing the number of 3-year average program completers or awards in related TOP and CIP codes. TOP code data comes from MIS Data Mart and CIP code data comes from the IPEDS. The TOP is a system of numerical codes used at the state level to collect and report information on California community college programs and courses throughout the state that have similar outcomes. CIP codes are a taxonomy of academic disciplines at institutions of higher education throughout the United States and Canada. The California Community Colleges are the only system that use TOP codes.

The analysis reflects labor market demand for occupations closely related to the proposed program as expressed by the requesting college in consultation with the OC COE. assess current and projected employment based on data trends for detailed occupations, as well as annual average awards granted by regional postsecondary educational institutions. Real-time labor market information (online job postings) assesses employer preferences but cannot be used to measure the quantity of open positions, number of jobs, or annual openings.

All findings are based on the most current available data and a combination of primary and secondary sources. While care was taken to ensure accuracy, the OC COE, its host district, and the California Community Colleges Chancellor's Office are not responsible for individual decisions made based on this report.

Appendix B: Data Sources

Data Type	Source
Occupational Projections, Wages, and Job Postings	Traditional and real-time labor market information are captured using data from Lightcast (v.2026.1), a labor market analytics firm.
Living Wage	<p>Per the CCCCCO's this report's endorsement criteria uses the University of Washington's Center for Women's Welfare Self-Sufficiency Standard last updated in March 2024, which is \$27.13 per hour (\$57,294 annually) in Orange County.</p> <p>The MIT Living Wage, updated on February 15, 2026, is a nationally recognized living wage metric and is provided for reference. The current MIT Living Wage in Orange County is \$36.53.</p>
Typical Education and Training Requirements, and Educational Attainment	The Bureau of Labor Statistics (BLS) uses a system to assign categories for entry-level education, work experience in a related occupation, and typical on-the-job training to each occupation for which BLS publishes projections data.
Emerging Occupation Descriptions, Additional Education Requirements, and Employer Preferences	The O*NET database includes information on skills, abilities, knowledges, work activities, and interests associated with occupations.
Educational Supply	<p>The CCCCCO Data Mart provides information about students, courses, student services, outcomes and faculty and staff.</p> <p>The National Center for Education Statistics (NCES) Integrated Postsecondary Integrated Data System (IPEDS) collects data on the number of postsecondary awards earned (completions).</p>
Student Metrics and Demographics	Data Vista (v.2.0), a statewide data system supported by the California Community Colleges Chancellor's Office provides data on progress, success, employment, and earnings outcomes for California community college students.
Population and Occupation Demographics	<p>The Census Bureau's American Community Survey (ACS) is the premier source for detailed population and housing information.</p> <p>Data is sourced from IPUMS USA, a database providing access to ACS and other Census Bureau data products.</p>

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