



CENTER OF EXCELLENCE
FOR LABOR MARKET RESEARCH
ORANGE COUNTY

ORANGE COUNTY SECTOR PROFILE
SUPPLEMENTAL APPENDICES:
PUBLIC SAFETY

2024

**ORANGE COUNTY
REGIONAL CONSORTIUM**

**WORKFORCE
DEVELOPMENT ALLIANCE**



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INTRODUCTION

The Orange County Center of Excellence for Labor Market Research (OC COE) is releasing a series of 12 sector profiles to provide a comprehensive analysis of Orange County's occupational landscape. This series dives into each of the 12 community college sectors, offering historical and projected occupational insights while building upon foundational research established through the Orange County Labor Market Overview.

In addition to the profiles themselves, supplemental appendices for each sector are being issued to provide detailed demand and supply data. The data in these appendices are presented to the region with the intent of being utilized for grant applications, project proposals, and the like. The full [Public Safety Sector Profile](#) is available on the COE Website.

Occupations are denoted throughout this report in italics, with their corresponding SOC code in parentheses. Middle-skill occupations have no special notation however, below middle-skill occupations are denoted with an * and above middle-skill occupations denoted with a ^. Occupations that are on U.S. News & World Report's 2024 100 Best Jobs list are denoted by a #, such as, *Forensic Science Technicians (19-4092)*#.

By examining this labor market data, in conjunction with the individual sector profiles, the OC COE seeks to highlight underlying dynamics and intricacies shaping each sector in Orange County. Community colleges and regional stakeholders can use this information for strategic planning and data-informed decision making to address workforce needs in this sector.

APPENDIX E: PUBLIC SAFETY DEMAND – LABOR MARKET DATA

Exhibit 24 shows the traditional labor market data points for all 29 occupations analyzed in the Public Safety Sector Profile. Below middle-skill occupations are indicated with light shading, middle-skill occupations are denoted with medium shading, and above middle-skill occupations are indicated with dark shading.

Exhibit 24: Occupational Demand for the 29 Public Safety Occupations

| Skill Level | SOC | Occupation | 2022 Jobs | 2027 Jobs | 5-Year Change | 5-Year % Change | Annual Openings | Pct. 25 Hourly Earnings | Median Hourly Earnings | Pct. 75 Hourly Earnings | Typical Entry Level Education | Work Experience Required | Typical On-The-Job Training |
|------------------------|---------|--|-----------|-----------|---------------|-----------------|-----------------|-------------------------|------------------------|-------------------------|-----------------------------------|--------------------------|-----------------------------------|
| Below Middle-Skill (*) | 33-9099 | Protective Service Workers, All Other* | 3,026 | 3,233 | 207 | 7% | 859 | \$14.81 | \$16.57 | \$17.73 | High school diploma or equivalent | None | Short-term on-the-job training |
| | 33-9092 | Lifeguards, Ski Patrol, and Other Recreational Protective Service Workers* | 1,644 | 2,018 | 375 | 23% | 552 | \$14.46 | \$16.07 | \$17.42 | No formal educational credential | None | Short-term on-the-job training |
| | 43-5032 | Dispatchers, Except Police, Fire, and Ambulance* | 1,900 | 1,984 | 83 | 4% | 215 | \$18.24 | \$22.31 | \$27.96 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| | 33-9091 | Crossing Guards and Flaggers* | 685 | 737 | 52 | 8% | 164 | \$15.74 | \$22.19 | \$29.17 | No formal educational credential | None | Short-term on-the-job training |
| | 33-9094 | School Bus Monitors* | 88 | 108 | 20 | 22% | 24 | \$17.12 | \$17.37 | \$17.55 | High school diploma or equivalent | None | Short-term on-the-job training |
| | 53-3011 | Ambulance Drivers and Attendants, Except Emergency Medical Technicians* | 88 | 100 | 12 | 14% | 17 | \$15.77 | \$17.24 | \$19.15 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| | 33-3041 | Parking Enforcement Workers* | 87 | 78 | (9) | (10%) | 9 | \$20.46 | \$24.21 | \$27.51 | High school diploma or equivalent | None | Short-term on-the-job training |

| Skill Level | SOC | Occupation | 2022 Jobs | 2027 Jobs | 5-Year Change | 5-Year % Change | Annual Openings | Pct. 25 Hourly Earnings | Median Hourly Earnings | Pct. 75 Hourly Earnings | Typical Entry Level Education | Work Experience Required | Typical On-The-Job Training |
|--------------|-------------------------------|---|-----------|-----------|---------------|-----------------|-----------------|-------------------------|------------------------|-------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Middle-Skill | 33-9032 | Security Guards# | 13,241 | 14,681 | 1,439 | 11% | 2,214 | \$16.54 | \$17.70 | \$19.09 | High school diploma or equivalent | None | Short-term on-the-job training |
| | 33-3051 | Police and Sheriff's Patrol Officers | 5,020 | 5,343 | 323 | 6% | 482 | \$38.59 | \$46.31 | \$54.97 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| | 33-2011 | Firefighters | 1,416 | 1,528 | 112 | 8% | 139 | \$30.68 | \$36.39 | \$52.72 | Postsecondary nondegree award | None | Long-term on-the-job training |
| | 33-3012 | Correctional Officers and Jailers | 894 | 913 | 19 | 2% | 88 | \$28.36 | \$33.10 | \$36.83 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| | 33-1091 | First-Line Supervisors of Security Workers | 514 | 571 | 57 | 11% | 64 | \$19.97 | \$28.39 | \$30.90 | High school diploma or equivalent | Less than 5 years | None |
| | 33-1012 | First-Line Supervisors of Police and Detectives | 693 | 742 | 49 | 7% | 57 | \$59.98 | \$72.87 | \$74.60 | High school diploma or equivalent | Less than 5 years | Moderate-term on-the-job training |
| | 43-5031 | Public Safety Telecommunicators | 437 | 477 | 40 | 9% | 55 | \$27.58 | \$34.58 | \$38.81 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| | 33-3021 | Detectives and Criminal Investigators | 558 | 586 | 28 | 5% | 51 | \$43.19 | \$53.03 | \$60.22 | High school diploma or equivalent | Less than 5 years | Moderate-term on-the-job training |
| | 33-9093 | Transportation Security Screeners | 550 | 547 | (3) | (1%) | 51 | \$22.76 | \$23.46 | \$24.62 | High school diploma or equivalent | None | Short-term on-the-job training |
| | 33-9021 | Private Detectives and Investigators | 454 | 480 | 26 | 6% | 49 | \$17.60 | \$30.08 | \$37.86 | High school diploma or equivalent | Less than 5 years | Moderate-term on-the-job training |
| 19-4092 | Forensic Science Technicians# | 232 | 255 | 23 | 10% | 34 | \$34.73 | \$45.01 | \$59.66 | Bachelor's degree | None | Moderate-term on-the-job training | |

| Skill Level | SOC | Occupation | 2022 Jobs | 2027 Jobs | 5-Year Change | 5-Year % Change | Annual Openings | Pct. 25 Hourly Earnings | Median Hourly Earnings | Pct. 75 Hourly Earnings | Typical Entry Level Education | Work Experience Required | Typical On-The-Job Training |
|------------------------|---------|---|-----------|-----------|---------------|-----------------|-----------------|-------------------------|------------------------|-------------------------|-----------------------------------|--------------------------|-----------------------------------|
| Middle-Skill | 33-9031 | Gambling Surveillance Officers and Gambling Investigators | 131 | 185 | 54 | 41% | 33 | \$14.49 | \$15.84 | \$16.13 | High school diploma or equivalent | Less than 5 years | Moderate-term on-the-job training |
| | 33-1021 | First-Line Supervisors of Firefighting and Prevention Workers | 352 | 380 | 28 | 8% | 32 | \$46.06 | \$67.13 | \$72.25 | Postsecondary nondegree award | Less than 5 years | Moderate-term on-the-job training |
| | 33-1099 | First-Line Supervisors of Protective Service Workers, All Other | 236 | 257 | 21 | 9% | 28 | \$27.84 | \$31.57 | \$38.77 | High school diploma or equivalent | Less than 5 years | None |
| | 33-3011 | Bailiffs | 84 | 89 | 4 | 5% | 12 | \$32.21 | \$37.16 | \$39.05 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| | 33-1011 | First-Line Supervisors of Correctional Officers | 49 | 55 | 6 | 13% | 6 | \$43.29 | \$47.37 | \$55.89 | High school diploma or equivalent | Less than 5 years | None |
| | 33-2021 | Fire Inspectors and Investigators | 55 | 60 | 5 | 10% | 6 | \$22.19 | \$41.96 | \$51.64 | Postsecondary nondegree award | 5 years or more | Moderate-term on-the-job training |
| | 33-2022 | Forest Fire Inspectors and Prevention Specialists | 19 | 22 | 3 | 17% | 2 | \$25.46 | \$37.15 | \$46.01 | High school diploma or equivalent | Less than 5 years | Moderate-term on-the-job training |
| | 33-3052 | Transit and Railroad Police | 23 | 25 | 1 | 6% | 2 | \$48.93 | \$54.35 | \$66.96 | High school diploma or equivalent | None | Moderate-term on-the-job training |
| | 33-3031 | Fish and Game Wardens | <10 | <10 | Insf. Data | Insf. Data | 1 | Insf. Data | Insf. Data | Insf. Data | Bachelor's degree | None | Moderate-term on-the-job training |
| Above Middle-Skill (^) | 21-1092 | Probation Officers and Correctional Treatment Specialists^ | 1,058 | 1,113 | 55 | 5% | 102 | \$36.09 | \$44.12 | \$47.74 | Bachelor's degree | None | Short-term on-the-job training |
| | 11-9161 | Emergency Management Directors^ | 38 | 42 | 4 | 10% | 4 | \$44.31 | \$50.88 | \$66.45 | Bachelor's degree | 5 years or more | None |

APPENDIX F: PUBLIC SAFETY SUPPLY – COMMUNITY COLLEGE AND NON-COMMUNITY COLLEGE AWARDS

This appendix provides labor market supply information, which equates to educational awards, for the Public Safety sector.

Exhibit 25 shows the distribution of community college awards in Orange County by program in the Public Safety sector.

Exhibit 25: Public Safety Community College Awards by Program, 2020-2023

| TOP | Program | 2020-2021 Awards | 2021-2022 Awards | 2022-2023 Awards | 3-Year Award Average |
|---------|--|------------------|------------------|------------------|----------------------|
| 1307.30 | Resort and Club Management | - | - | - | - |
| 2104.00 | Human Services | 160 | 137 | 102 | 133 |
| 2104.50 | Disability Services | - | 1 | - | 0 |
| 2105.00 | Administration of Justice | 537 | 516 | 469 | 507 |
| 2105.10 | Corrections | 13 | 26 | 29 | 23 |
| 2105.20 | Probation and Parole | - | - | - | - |
| 2105.30 | Industrial and Transportation Security | 14 | 11 | 18 | 14 |
| 2105.40 | Forensics, Evidence, and Investigation | - | - | 9 | 3 |
| 2105.50 | Police Academy | 11 | 370 | 460 | 280 |
| 2133.00 | Fire Technology | 421 | 378 | 360 | 386 |
| 2133.10 | Wildland Fire Technology | - | - | - | - |
| 2199.00 | Other Public and Protective Services | - | - | - | - |
| 2206.10 | Geographic Information Systems | 9 | 5 | 6 | 7 |
| | Total/Average | 1,165 | 1,444 | 1,453 | 1,354 |

Exhibit 26 details Public Safety sector supply award counts by Orange County community college.

Exhibit 26: Public Safety Community College Awards by College, 2020-2023

| College | 2020-2021 Awards | 2021-2022 Awards | 2022-2023 Awards | 3-Year Award Average |
|----------------------|------------------|------------------|------------------|----------------------|
| Coastline | 61 | 44 | 49 | 51 |
| Cypress | 88 | 77 | 86 | 84 |
| Fullerton | 152 | 119 | 118 | 130 |
| Golden West | 170 | 203 | 162 | 178 |
| Irvine Valley | 74 | 75 | 49 | 66 |
| North Orange Adult | - | 1 | - | 0 |
| Saddleback | 23 | 38 | 24 | 28 |
| Santa Ana | 597 | 884 | 961 | 814 |
| Santiago Canyon | - | 3 | 4 | 2 |
| Total/Average | 1,165 | 1,444 | 1,453 | 1,354 |

Exhibit 27 provides the number of Public Safety sector awards conferred by non-community college programs.

Exhibit 27: Public Safety Non-Community College Awards by Program, 2019-2022

| CIP | Program | 2019-2020 Awards | 2020-2021 Awards | 2021-2022 Awards | 3-Year Award Average |
|---------|---------------------------------------|------------------|------------------|------------------|----------------------|
| 26.0101 | Biology/Biological Sciences, General | 1,080 | 1,022 | 1,007 | 1,036 |
| 40.0501 | Chemistry, General | 268 | 211 | 208 | 229 |
| 43.0104 | Criminal Justice/Safety Studies | 417 | 419 | 404 | 413 |
| 43.0109 | Security and Loss Prevention Services | 34 | 34 | 31 | 33 |
| 44.0701 | Social Work | 264 | 342 | 434 | 347 |
| | Total/Average | 2,063 | 2,028 | 2,084 | 2,058 |

Exhibit 28 includes the number of Public Safety sector awards conferred by non-community college institutions.

Exhibit 28: Public Safety Non-Community College Awards by Institution, 2019-2022

| Institution | 2019-2020 Awards | 2020-2021 Awards | 2021-2022 Awards | 3-Year Award Average |
|--|-------------------------|-------------------------|-------------------------|-----------------------------|
| California State University-Fullerton | 692 | 676 | 740 | 703 |
| Chapman University | 47 | 60 | 56 | 54 |
| Concordia University-Irvine | 27 | 24 | 34 | 28 |
| Hope International University | - | 2 | 8 | 3 |
| Platt College-Anaheim | 16 | 7 | 6 | 10 |
| Touro University Worldwide | 17 | 12 | 5 | 11 |
| UEI College-Garden Grove | 34 | 34 | 31 | 33 |
| University of California-Irvine | 981 | 919 | 830 | 910 |
| University of Massachusetts Global | 230 | 275 | 358 | 288 |
| Vanguard University of Southern California | 19 | 19 | 16 | 18 |
| Total/Average | 2,063 | 2,028 | 2,084 | 2,058 |

APPENDIX G: PUBLIC SAFETY CIP CODES

This appendix provides the list of CIP codes that crosswalk to the occupations in the Public Safety sector but did not have any supply (Exhibit 29).

Exhibit 29: List of CIP with No Supply in Orange County

| CIP | Program | CIP | Program |
|---------|---|---------|---|
| 03.0208 | Environmental/Natural Resources Law Enforcement and Protective Services | 43.0205 | Fire/Arson Investigation and Prevention |
| 12.0601 | Casino Operations and Services, General | 43.0206 | Wildland/Forest Firefighting and Investigation |
| 29.0203 | Signal/Geospatial Intelligence | 43.0299 | Fire Protection, Other |
| 40.0510 | Forensic Chemistry | 43.0301 | Homeland Security |
| 43.0100 | Criminal Justice and Corrections, General | 43.0302 | Crisis/Emergency/Disaster Management |
| 43.0102 | Corrections | 43.0303 | Critical Infrastructure Protection |
| 43.0103 | Criminal Justice/Law Enforcement Administration | 43.0304 | Terrorism and Counterterrorism Operations |
| 43.0107 | Criminal Justice/Police Science | 43.0399 | Homeland Security, Other |
| 43.0110 | Juvenile Corrections | 43.0401 | Security Science and Technology, General |
| 43.0112 | Securities Services Administration/Management | 43.0402 | Criminalistics and Criminal Science |
| 43.0113 | Corrections Administration | 43.0403 | Cyber/Computer Forensics and Counterterrorism |
| 43.0114 | Law Enforcement Investigation and Interviewing | 43.0404 | Cybersecurity Defense Strategy/Policy |
| 43.0115 | Law Enforcement Record-Keeping and Evidence Management | 43.0405 | Financial Forensics and Fraud Investigation |
| 43.0119 | Critical Incident Response/Special Police Operations | 43.0406 | Forensic Science and Technology |
| 43.0120 | Protective Services Operations | 43.0407 | Geospatial Intelligence |
| 43.0121 | Suspension and Debarment Investigation | 43.0408 | Law Enforcement Intelligence Analysis |
| 43.0122 | Maritime Law Enforcement | 43.0499 | Security Science and Technology, Other |
| 43.0123 | Cultural/Archaeological Resources Protection | 45.0205 | Forensic Anthropology |
| 43.0199 | Corrections and Criminal Justice, Other | 51.0810 | Emergency Care Attendant (EMT Ambulance) |
| 43.0201 | Fire Prevention and Safety Technology/Technician | 52.0410 | Traffic, Customs, and Transportation Clerk/Technician |
| 43.0202 | Fire Services Administration | 61.0603 | Emergency Medical Services Fellowship Program |
| 43.0203 | Fire Science/Fire-fighting | | |



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.

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