Labor Market Analysis for Program Recommendation: 0612.20/Film Production
(Associate of Arts)

CVML Center of Excellence, October 2026

Summary

Program LMI Endorsement	Endorsed: All LMI Criteria Met ☒	Endorsed: Some LMI Criteria Met ☐	Not LMI Endorsed ☐

Program LMI Endorsement Criteria

Supply Gap:	Yes ☑	No ☐
	Comments: There are projected to be **40 annual job openings** throughout the SCV/SML subregion for *media and communication equipment workers*-related middle-skill occupations, which **are more than the 4 awards conferred by educational institutions in the SCV/SML subregion.** *Note:* Only middle-skill jobs are considered when determining supply gap. Including the above middle-skill occupation increases the overall annual job openings by 12 to a total of 52.	
Living Wage: (Entry-Level as 25th Percentile):	Yes ☑	No ☐
	Comments: Both of the *media and communication equipment workers*-related middle-skill occupations included in this report have an entry-level hourly wage **above the SCV/SML living wage of $16.08.** *Note:* Only middle-skill jobs are considered when determining living wage.	
Education:	Yes ☑	No ☐
	Comments: The typical entry-level education for *Audio and Video Technicians* is a postsecondary nondegree award, and the typical entry-level education for *Broadcast Technicians* is an associate degree. Additionally, **41% of middle-skill workers have completed some college or an associate degree as their highest level of education.** *Note:* Only middle-skill jobs are considered when determining education.	

Emerging Occupation(s)

Yes ☐ No ☑

Comments: N/A

The Central Valley/Mother Lode Center of Excellence for Labor Market Research (CVML COE) prepared this report to determine whether there is a supply gap in the South Central Valley/Southern Mother Lode regional labor market related to the following occupations:

- Middle-Skill
  - Audio and Video Technicians (27-4011)
  - Broadcast Technicians (27-4012)
- Above Middle-Skill - denoted with a caret (^) throughout this report

- Camera Operators, Television, Video, and Film (27-4031)^

Middle-skill occupations typically require a community college education while above middle-skill occupations typically require at least a bachelor's degree.

Based on the available data, there appears to be a supply gap for *media and communication equipment workers*-related middle-skill occupations. In addition to the middle-skill occupations in this report having entry-level wages above the subregion's living wage, 41% of workers in this field have completed some college or an associate degree as their highest level of education. **Therefore, due to all of the regional labor market criteria being met, the COE endorses this proposed program.**

Exhibit 1 lists the occupational demand, supply, typical entry-level education, and educational attainment for *media and communication equipment workers*-related occupations.

Exhibit 1: Labor Market Endorsement 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
Audio and Video Technicians (27-4011)	NCV/NML: 18 SCV/SML: 31	NCV/NML: 1 SCV/SML: 4	NCV/NML: $21.62 SCV/SML: $19.38	Postsecondary nondegree award	41%
Broadcast Technicians (27-4012)	NCV/NML: 2 SCV/SML: 9		NCV/NML: $19.51 SCV/SML: $17.86	Associate degree	41%
Middle-Skill Total	**60**	**5**	**-**		
Camera Operators, Television, Video, and Film (27-4031)^	NCV/NML: 6 SCV/SML: 12	NCV/NML: 1 SCV/SML: 4	NCV/NML: $20.42 SCV/SML: $22.05	Bachelor's degree	26%
Above Middle-Skill Total	**18**	**5**	**-**		
Total	**78**		**-**		

Demand:

- The number of jobs related to the three *media and communication equipment workers*-related middle-skill occupations in this report are projected to increase 1% through 2030. There will be 40 annual job openings in the SCV/SML subregion.
- Both of the *media and communication equipment workers*-related middle-skill occupations have an entry-level hourly wage above the living wage of $16.08 in the SCV/SML subregion.
- There were 64 online job postings for the *media and communication equipment workers*-related middle-skill occupations over the past 12 months.

- The Bureau of Labor Statistics (BLS) lists a postsecondary nondegree award as the typical entry-level education for *Audio and Video Technicians*, and lists an associate degree as the typical entry-level education for *Broadcast Technicians*.
- National-level educational attainment data indicates that 41% of middle-skill workers in the field have completed some college or an associate degree as their highest level of education.

Supply:

- Between 2022 and 2025, there was an average of 4 awards conferred by community colleges in the SCV/SML subregion.
- Between 2021 and 2024, there were no non-community college institutions in the SCV/SML subregion that conferred awards in relevant programs.

Demand

Occupational Projections

Exhibit 2a shows the annual percent change for the *Broadcast, Sound, and Lighting Technicians* middle-skill occupations from 2020 through 2030. The SCV/SML subregion experienced the highest growth in 2025 at 8%, compared to the 0% growth across all CA occupations. The SCV/SML subregion experienced the second highest growth in 2023 at 7%, compared to the 0% growth across all CA occupations. From 2027 to 2030, there is projected to be no growth in SCV/SML subregion (between -2% and 0%).

Exhibit 2a (Middle-Skill) Annual Percent Change in Jobs for Broadcast, Sound, and Lighting Technicians, 2020-2030

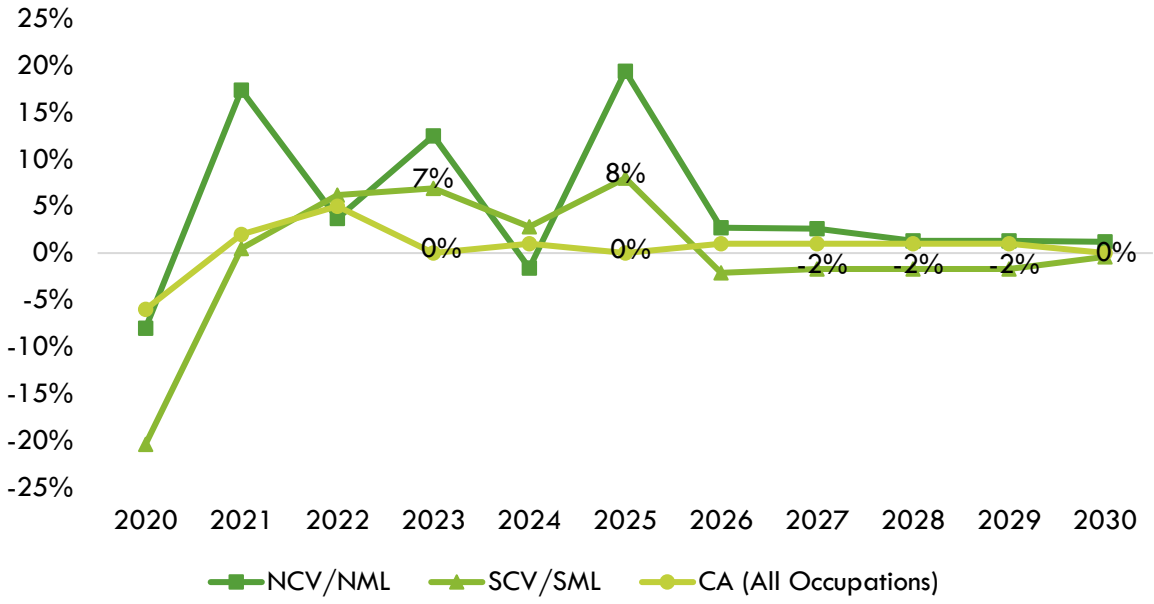


Exhibit 2b shows the annual percent change for the *Camera Operators, Television, Video, and Film* above middle-skill occupation from 2020 through 2030. The SCV/SML subregion experienced the highest growth in 2022 at 17%, compared to the 5% growth across all CA occupations. The SCV/SML subregion experienced the second highest growth in 2023 at 6%, compared to the 0% growth across all CA occupations. From 2027 to 2030, growth is projected to remain steady in SCV/SML subregion (between 1% and 2%).

Exhibit 2b (Above Middle-Skill) Annual Percent Change in Jobs for Camera Operators, Television, Video, and Film, 2020-2030

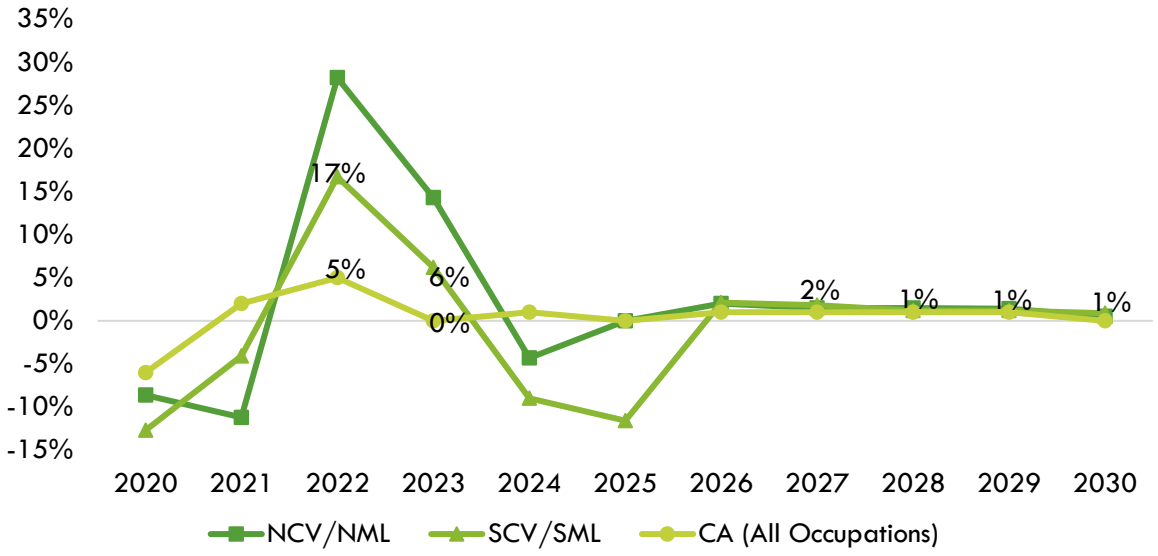


Exhibit 3a shows the five-year occupational demand projections for the *media and communication equipment workers*-related middle-skill occupations. In the SCV/SML subregion, the number of jobs related to these occupations are projected to increase by 1% through 2030. There are projected to be 40 jobs available annually in the SCV/SML subregion.

Exhibit 3a (Middle-Skill): Occupational Demand in NCV/NML, SCV/SML, and CVML[1]

Geography	2025 Jobs	2030 Jobs	2025-2030 Change	2025-2030 % Change	Annual Openings
NCV/NML	219	234	15	7%	20
SCV/SML	448	451	3	1%	40
CVML	**667**	**685**	**18**	**3%**	**60**

[1]Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

Exhibit 3b shows the five-year occupational demand projections for the *media and communication equipment workers*-related above middle-skill occupation. In the SCV/SML subregion, the number of jobs related to this occupation is projected to increase by 2% through 2030. There are projected to be 12 jobs available annually in the SCV/SML subregion.

Exhibit 3b (Above Middle-Skill): Occupational Demand in NCV/NML, SCV/SML, and CVML

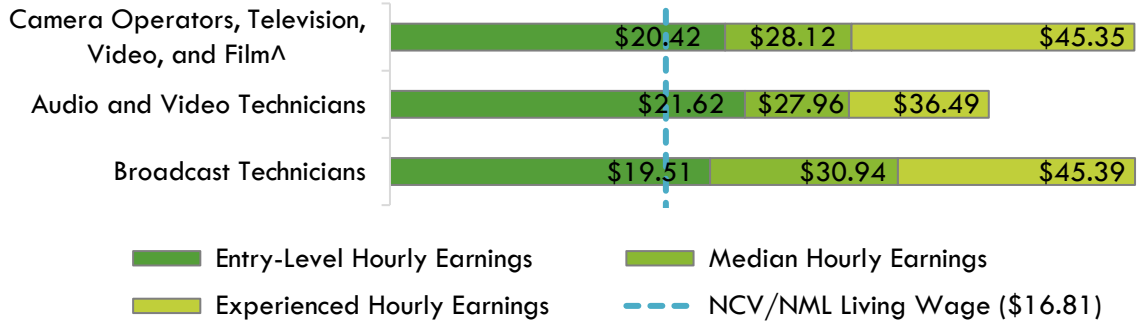
Geography	2025 Jobs	2030 Jobs	2025-2030 Change	2025-2030 % Change	Annual Openings
NCV/NML	54	60	6	11%	6
SCV/SML	123	126	3	2%	12
CVML	**177**	**186**	**9**	**5%**	**18**

Wages:

The labor market endorsement in this report considers the entry-level hourly wages for the three *media and communication equipment workers*-related occupations as they relate to the subregions and region's living wage. NCV/NML, SCV/SML, and CVML wages are included below to provide a complete analysis of the region.

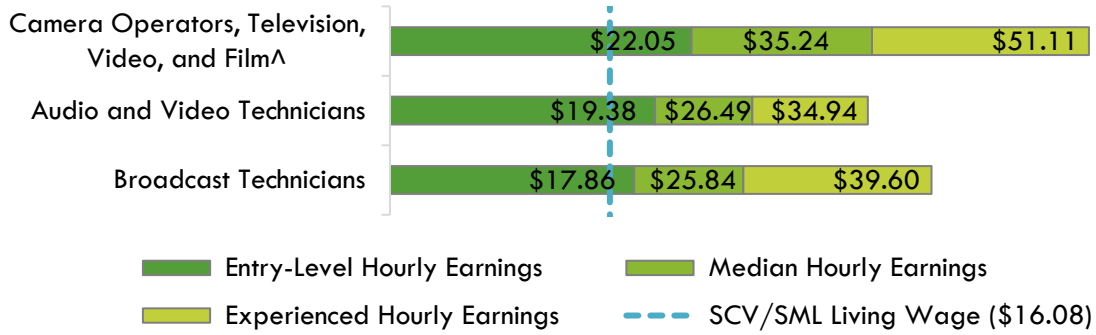
All three *media and communication equipment workers*-related occupations have an entry-level hourly wage above the living wage for one adult in the NCV/NML subregion ($16.81). The NCV/NML subregion average wage for these occupations is $35.06, which is below the average statewide wage of $38.55. Exhibit 4a shows the wage range for *media and communication equipment workers*-related occupations and how they compare to the NCV/NML subregion's living wage.

Exhibit 4a: Wages by Occupation in NCV/NML



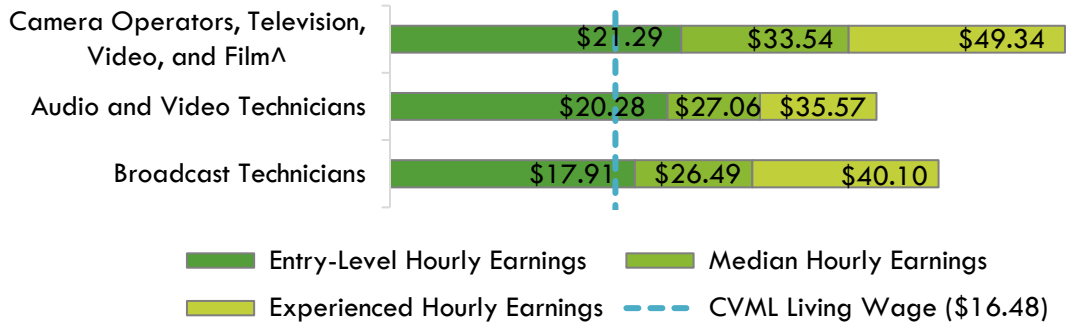
All three *media and communication equipment workers*-related occupations have an entry-level hourly wage above the living wage for one adult in the SCV/SML subregion ($16.08). The SCV/SML subregion average wage for these occupations is $34.03, which is below the average statewide wage of $38.55. Exhibit 4b shows the wage range for *media and communication equipment workers*-related occupations and how they compare to the SCV/SML subregion's living wage.

Exhibit 4b: Wages by Occupation in SCV/SML



All three *media and communication equipment workers*-related occupations have an entry-level hourly wage above the living wage for one adult in the CVML region ($16.48). The CVML region average wage for these occupations is $34.37, which is below the average statewide wage of $38.55. Exhibit 5 shows the wage range for *media and communication equipment workers*-related occupations and how they compare to the CVML region's living wage.

Exhibit 5: Wages by Occupation in CVML



Job Postings:

Important Online Job Postings Data Note: *Online job postings data is sourced from Lightcast, a labor market analytics firm that scrapes, collects, and organizes data from online job boards such as LinkedIn, Indeed, Glassdoor, Monster, GovernmentJobs.com, and thousands more. Lightcast uses natural language processing (NLP) to determine the related company, industry, occupation, and other information for each job posting. However, NLP has limitations that include understanding contextual words of phrases; determining differences in words that can be used as nouns, verbs, and/or adjectives; and misspellings or grammatical errors.*[2] *For these reasons, job postings could be assigned to the wrong employer, industry, or occupation within Lightcast's database.*

Additionally, there are several limitations when analyzing job postings. A single job posting may not represent a single job opening, as employers may be creating a pool of candidates for future openings or hiring for multiple positions with a single posting. Additionally, not all jobs are posted online, and jobs may be filled through other methods such as internal promotion, word-of-mouth advertising, physical job boards, or a variety of other channels.

There were 64 online job postings related to *Broadcast, Sound, and Lighting Technicians* listed in the past 12 months (Exhibit 6a).

Exhibit 6a (Middle-Skill): Number of Job Postings (n=64)

Occupations	Job Postings	Percentage of Job Postings
Audio and Video Technicians	41	64%
Broadcast Technicians	23	36%

There were 49 online job postings related to *Camera Operators, Television, Video, and Film* listed in the past 12 months (Exhibit 6b).

Exhibit 6b (Above Middle-Skill): Number of Job Postings (n=49)

Occupations	Job Postings	Percentage of Job Postings
Camera Operators, Television, Video, and Film	49	100%

The top employers in the region for *Broadcast, Sound, and Lighting Technicians*, by number of job postings, are shown in Exhibit 7a.

Exhibit 7a (Middle-Skill): Top Employers by Number of Job Postings (n=64)

Employers	Job Postings	Percentage of Job Postings
Kern Community College District	8	12%
Mammoth Mountain Ski Area	5	8%
The PM Lounge	4	6%
ATC-West Healthcare	2	3%

[2]K. R. Chowdhary, Fundamentals of Artificial Intelligence (Basingstoke: Springer Nature, 2020), https://link.springer.com/book/10.1007/978-81-322-3972-7

Employers	Job Postings	Percentage of Job Postings
Spiral Technology	2	3%
Chenega Corporation	2	3%
AppleOne	2	3%
Exact Staff	2	3%
Nexstar Media Group	2	3%
T-ROC	2	3%

The top employers in the region for *Camera Operators, Television, Video, and Film*, by number of job postings, are shown in Exhibit 7b.

Exhibit 7b (Above Middle-Skill): Top Employers by Number of Job Postings (n=49)

Employers	Job Postings	Percentage of Job Postings
Concorde Education	8	16%
Babel Audio	2	4%
Spark Marketing	2	4%
Nutrien	2	4%
Lee's Air, Plumbing & Heating	1	2%
Phantom Virtual	1	2%
Exodigo	1	2%
Digital 2.0	1	2%
Pump	1	2%
College of the Sequoias	1	2%

The top specialized, common, and software skills for *Broadcast, Sound, and Lighting Technicians* are listed by those most frequently mentioned in job postings (denoted in parentheses) are shown in Exhibit 8a.

Exhibit 8a (Middle-Skill): Top Skills by Number of Job Postings (n=64)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Inventory Management (17)	Troubleshooting (Problem Solving) (43)	Microsoft Excel (5)
Lifting Ability (15)	Communication (38)	Microsoft Outlook (4)
Audio Systems (14)	Operations (22)	Project Management Software (3)
Equipment Operation (10)	Customer Service (17)	Microsoft 365 (2)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Broadcasting (9)	Problem Solving (16)	Email Software (2)
Technical Issues (8)	Management (12)	AutoCAD (2)
Distance Learning (8)	Editing (11)	C++ (Programming Language) (2)
Dubbing (Filmmaking) (8)	Interpersonal Communications (10)	SolidWorks (CAD) (2)
Punctuation and Capitalization (8)	Detail Oriented (10)	Disassembler (2)
Vocabulary (7)	Patience (9)	Python (Programming Language) (2)

The top specialized, common, and software skills for *Camera Operators, Television, Video, and Film* are listed by those most frequently mentioned in job postings (denoted in parentheses) are shown in Exhibit 8b.

Exhibit 8b (Above Middle-Skill): Top Skills by Number of Job Postings (n=49)

Top Specialized Skills	Top Soft Skills	Top Computer Skills
Videography (10)	Communication (16)	Adobe Premiere Pro (8)
Adobe Premiere Pro (8)	Editing (11)	Final Cut Pro (5)
Video Production (7)	Problem Solving (11)	DaVinci Resolve (Video Editing Software) (4)
Lesson Planning (7)	Organizational Skills (9)	Adobe After Effects (3)
Unmanned Aerial Systems (UAS) (6)	Critical Thinking (8)	Video Editing Software (3)
Flight Planning (5)	Planning (6)	TikTok (2)
Photography (5)	Teaching (6)	Adobe Photoshop (2)
Final Cut Pro (5)	Detail Oriented (6)	Adobe Creative Suite (2)
Post-Production (5)	Interpersonal Communications (5)	Canva (Software) (1)
Social Media (5)	Operations (5)	Microsoft 365 (1)

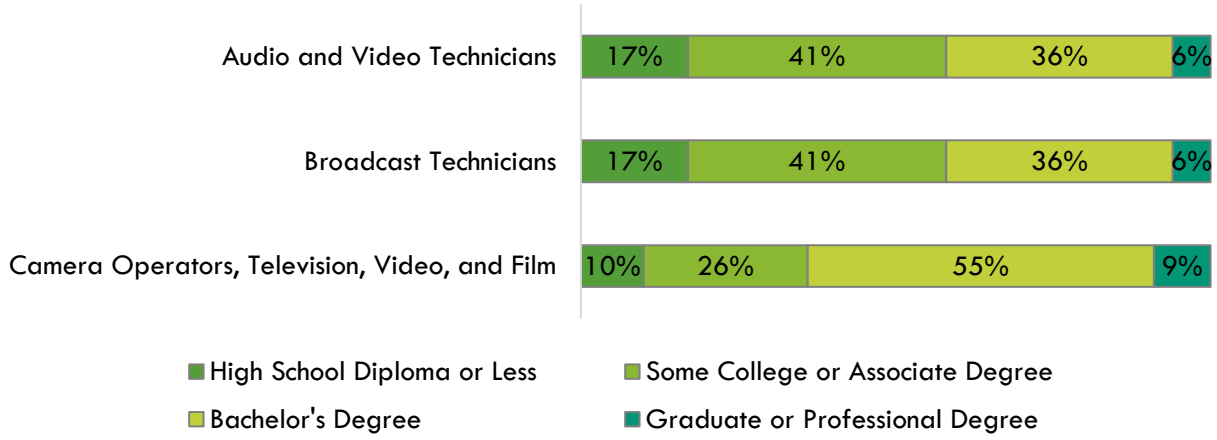
Educational Attainment:

The Bureau of Labor Statistics (BLS) lists a postsecondary nondegree award as the typical entry-level education for *Audio and Video Technicians*, lists an associate degree as the typical entry-level education for *Broadcast Technicians* and lists a bachelor's degree as the typical entry-level education for *Camera, Operators, Television, Video, and Film*. National-level educational attainment data indicates that 41% of middle-skill workers in the field have completed some college or an associate degree as their highest level of education. Exhibit 9 shows the educational attainment for *media and communication equipment workers*-related occupations.

Of the 64 online job postings for the middle-skill occupations, 34% (equivalent to 22 postings) of cumulative job postings listed a minimum education requirement in the SCV/SML subregion. Of the 22 postings, 45% (10) requested an associate degree.

Of the 49 online job postings for the above middle-skill occupation, 24% (equivalent to 12 postings) of cumulative job postings listed a minimum education requirement in the SCV/SML subregion. Of the 12 postings, 67% (8) requested a bachelor's degree.

Exhibit 9: National-level Educational Attainment for Media and Communication Equipment Workers-Related Occupations



Educational Supply

Community College Supply:

Exhibits 10a and 10b show the annual and three-year average number of awards conferred by community colleges in the programs that have historically trained for the occupations included in this report. Only Porterville conferred awards in the SCV/SML subregion.

Exhibit 10a: NCV/NML Community College Awards (Certificates and Degrees) 2022-23 through 2024-25

TOP Code	Program	College	2022-2023 Awards	2023-2024 Awards	2024-2025 Awards	3-Year Award Average
0604.20	Television (including combined TV/film/video)	Modesto	-	-	4	1
Subtotal/Average			**-**	**-**	**4**	**1**
NCV/NML Supply Grand Total			**-**	**-**	**4**	**1**

Exhibit 10b: SCV/SML Community College Awards (Certificates and Degrees) 2022-23 through 2024-25

TOP Code	Program	College	2022-2023 Awards	2023-2024 Awards	2024-2025 Awards	3-Year Award Average
0612.20	Film Production	Porterville	3	9	1	4
Subtotal/Average			**3**	**9**	**1**	**4**
SCV/SML Supply Grand Total			**3**	**9**	**1**	**4**

Exhibit 11 shows the annual average community college awards by type from 2022-23 through 2024-25. Of the 4 awards conferred in the SCV/SML subregion, none of these awards were for an associate degree.

Exhibit 11: Annual Average Community College Awards (SCV/SML) by Type, 2022-2025



Community College Student Outcomes:

Exhibit 12 shows the Strong Workforce Program (SWP) metrics for Film Production programs in State Center Community College District (SCCCD), the SCV/SML subregion, the CVML region, and California.

Of the 10,612 film production program students statewide in the 2024-2025 academic year, 2% (229) attended a CVML institution. SCCCD students that exited film production programs in the 2023-2024 academic year had greater median annual earnings ($27,018) compared to all film production students in SCV/SML subregion ($26,794). Notably, 34% of CVML region film production students attained a living wage, which is greater than the percentage of students who attained a living wage statewide (22%).

Exhibit 12: Film Production (0612.20) Strong Workforce Program Metrics

SWP Metric	SCCCD	SCV/SML Subregion	CVML Region	California
SWP Students	174	213	229	10,612
SWP Students Who Earned 9 or More Career Education Units in the District in a Single Year	32%	32%	32%	29%
SWP Students Who Completed a Noncredit CTE or Workforce Preparation Course	N/A	N/A	N/A	72%
SWP Students Who Earned a Degree or Certificate or Attained Apprenticeship Journey Status	N/A	N/A	N/A	4%
SWP Students Who Transferred to a Four-Year Postsecondary Institution	7%	7%	8%	9%
SWP Students with a Job Closely Related to Their Field of Study	N/A	N/A	N/A	61%
Median Annual Earnings for SWP Exiting Students	$27,018 ($12.99)	$26,794 ($12.88)	$27,018 ($12.99)	$32,418 ($15.59)
Median Change in Earnings for SWP Exiting Students	88%	124%	118%	30%
SWP Exiting Students Who Attained the Living Wage	N/A	33%	34%	22%



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 the occupations studied in this report. This includes examining the annual and three-year average number of awards conferred by non-community college institutions in programs that have historically trained for the occupations of interest.

Between 2021 and 2024, there were no non-community college institutions in the NCV/NML subregion that conferred awards annually in related training programs.

Appendix A: Methodology

The CVML COE prepared this report by analyzing data from occupations and education programs.

Occupational data is derived from Lightcast, a labor market analytics firm that consolidates data from the California Employment Development Department (EDD), U.S. Bureau of Labor Statistics (BLS) and other government agencies. Program supply data is drawn from two systems: Taxonomy of Programs (TOP) and Classification of Instructional Programs (CIP).

Using a TOP-SOC crosswalk, the CVML 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 CVML COE determined labor market supply for an occupation or SOC code by analyzing the number of program completers or awards in a related TOP or CIP code. The COE developed a "supply table" with this information, which is the source of the program supply data for this report. TOP code data comes from the California Community Colleges Chancellor's Office MIS Data Mart (datamart.cccco.edu) and CIP code data comes from the Integrated Postsecondary Education Data System (nces.ed.gov/ipeds/use-the-data), also known as IPEDS. 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 in the United States and Canada. Institutions outside of the California Community College system do not use TOP codes in their reporting systems.

Data included in this analysis represent the labor market demand for relevant positions most closely related to the proposed program as expressed by the requesting college in consultation with the CVML COE. Traditional labor market information was used to show current and projected employment based on data trends, as well as annual average awards granted by regional community colleges. Real-time labor market information captures job post advertisements for occupations relevant to the field of study which can signal demand and show what employers are looking for in potential employees but is not a perfect measure of the quantity of open positions.

All representations have been produced from primary research and/or secondary review of publicly and/or privately available data and/or research reports. The most recent data available at the time of the analysis was examined; 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 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.

Appendix B: Data Sources

Data Type	Source
Occupational Projections, Wages, and Job Postings	Traditional labor market information data is sourced from Lightcast, a labor market analytics firm. Lightcast occupational employment data are based on final Lightcast industry data and final Lightcast staffing patterns. Wage estimates are based on Occupational Employment Statistics and the American Community Survey. For more information, see https://lightcast.io/
Living Wage	The living wage is derived from the Insight Center's California Family Needs Calculator, which measures the income necessary for an individual of family to afford basic expenses. The data assesses the cost of housing, food, childcare, health care, transportation, and taxes. For more information, see: https://selfsufficiencystandard.org/California/ Wage figures are used by the CCCCO to calculate the percentage of students that attained the regional living wage.
Typical Education and Training Requirements, and Educational Attainment	The Bureau of Labor Statistics (BLS) provides information about education and training requirements for hundreds of occupations. 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. For more information, see https://www.bls.gov/emp/documentation/education/tech.htm
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. For more information, see https://www.onetonline.org/help/online/
Educational Supply	The CCCCO Data Mart provides information about students, courses, student services, outcomes and faculty and staff. For more information, see: https://datamart.cccco.edu The National Center for Education Statistics (NCES) Integrated Postsecondary Integrated Data System (IPEDS) collects data on the number of postsecondary awards earned (completions). For more information, see https://nces.ed.gov/ipeds/use-the-data/survey-components/7/completions
Student Metrics and Demographics	DataVista, a statewide data system supported by the California Community Colleges Chancellor's Office and hosted by Cal-PASS Plus, provides data on progress, success, employment, and earnings outcomes for California community college students. For more information, see: https://datavista.cccco.edu/
Population and Occupation Demographics	The Census Bureau's American Community Survey (ACS) is the premier source for detailed population and housing information. For more information, see: https://www.census.gov/programs-surveys/acs Data is sourced from IPUMS USA, a database providing access to ACS and other Census Bureau data products. For more information, see: https://usa.ipums.org/usa/about.shtml

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