

Graphic Design and Printing Occupational Group

Desert/ Inland Empire Region

Demand for Graphic Design and Printing Occupations

The graphic designer occupation is expected to have the most job openings (1,167 total job openings) over the next five years. While art directors is the fastest growing occupation in this group, expecting to increase employment 6% over the next five years, it does not have as many annual openings as graphic designers or printing press operators. Despite the decline in new job creation over the next five years for printing press operators and prepress technicians and workers, there will still be job replacement opportunities due to workers permanently vacating these occupations. All occupations in this group are considered “middle-skill” except art directors, which is above middle-skill. See Appendix A for details about the middle-skill definition.

Graphic Design and Printing Occupational Group (SOC Code)	2017 Jobs	2022 Jobs	2017-22 % Change (New Jobs)	2017-22 Openings (New and Replacement Jobs)	Annual Openings (New and Replacement Jobs)	Age 55+ % of Occupation	*Middle-Skill Job?
Graphic Designers (27-1024)	2,372	2,434	3%	1,167	233	22%	Yes
Printing Press Operators (51-5112)	1,211	1,200	(1%)	644	129	27%	Yes
Art Directors (27-1011)	478	509	6%	223	45	32%	Above Middle Skill
Prepress Technicians and Workers (51-5111)	157	144	(8%)	89	18	21%	Yes
TOTAL	4,217	4,288	2%	2,122	424	25%	

Source: EMSI 2018.2, COE

*See Appendix A for the Middle-skill definition

Wages, Typical Entry-Level Education and Training Required, and Work Experience Required

The table below displays the graphic designer occupations sorted by highest average annual earnings. Graphic designers have the highest entry-level hourly wage, but art directors have the highest average annual earnings. The living wage for a single adult living in the Inland Empire/Desert Region is \$12.30 per hour or \$25,586 annually according to the MIT Living Wage Calculator. Entry-level earnings for graphic designers and art director meet this standard. However, entry-level earnings for prepress technicians and workers and printing press operators fall below the entry-level hourly threshold; the annual average wages for these occupations do exceed the annual earnings minimum.

Art directors and graphic designers typically require workers to hold a bachelor's degree to enter employment. Prepress technicians and workers and printing press operators typically require lower levels of education. Workers looking for art directors positions typically require five or more years of previous work experience to enter employment.

Graphic Design and Printing Occupational Group	Hourly Earnings Range*	Avg. Annual Earnings	Typical Entry-Level Education and On-The-Job Training Required	Work Experience Required
Art Directors	\$15.72 to \$22.03	\$50,800	Bachelor's degree & None	5 years or more
Graphic Designers	\$17.14 to \$23.50	\$44,300	Bachelor's degree & None	None
Prepress Technicians and Workers	\$11.73 to \$19.39	\$36,400	Postsecondary nondegree award & None	None
Printing Press Operators	\$12.28 to \$18.63	\$33,800	High school diploma or equivalent & 1-12 months	None

Source: EMSI 2018.2 *25th to 75th Percentile Hourly Wage

Completions

1030.00 - Graphic Art and Design (TOP) 50.0409 - Graphic Design Total (CIP)	2013-14	2014-15	2015-16	2016-17	Latest 3-Yr Average*
1030.00 - Graphic Art and Design					
Riverside					
Certificate 6 to < 18 semester units		24	22	29	25
San Bernardino					
Associate Degree		9	12	13	11
Certificate 18 to < 30 semester units		3	5	18	9
1030.00 - Graphic Art and Design Total		36	39	60	45
50.0409 - Graphic Design					
Argosy University-The Art Institute of California-Inland Empire					
Associate Degree	38	41	30		36
Platt College-Ontario					
Associate Degree	-	18	12		10
Platt College-Riverside					
Associate Degree	-	11	10		7
50.0409 - Graphic Design Total	38	70	52		53
GRAND TOTAL	38	106	91	60	98

Source: Data Mart, IPEDS

*The latest three-year averages for the California Community Colleges are based on academic years 2014-15, 2015-16, and 2016-17 and have been sourced from Data Mart. The latest three-year averages for other postsecondary institutions are based on academic years 2013-14, 2014-15, and 2015-16 are have been sourced from IPEDS.



1030.00 - Graphic Art and Design Strong Workforce Program Metrics for community colleges in the Inland Empire/Desert Region, 2015-16 academic year:

- Number of course enrollments: 654 (California Median: 2,177)*
- Number of students who transferred to a 4-year institution: 33 (CA: 148)
- Employed in the second fiscal quarter after exit: 64% (CA: 61%)
- Median earnings in the second fiscal quarter after exit: \$4,298 (CA: \$4,982)
- Employed in the fourth fiscal quarter after exit: 64% (CA: 60%)
- The percentage in a job closely related to the field of study: 75% (CA: 61%) [2014-15]
- Median change in earnings: 103% (CA: 66%)
- The proportion of students who attained a living wage: 26% (CA: 35%)

*academic year 2016-17

Appendix A

Middle-Skill Definition:

1. All occupations listing some college or associate degree as a typical entry-level education.
2. All occupations needing an apprenticeship.
3. All occupations with a Bachelor's degree with $\sim \geq 33\%$ of workers (CPS) having some college to associate degree.
4. All occupations with high school or equivalent or no formal education with long-term on-the-job training.
5. All supervisory occupations (skills-builder qualified).
6. All occupations with high school or equivalent or no formal education requiring previous work experience.
7. Exceptions for Bachelor's degree where there are pre-existing community college-level programs.
8. Exceptions were made for occupations with high school or equivalent or no formal education with short or moderate on-the-job training where multiple community colleges have pre-existing programs.