Construction Technology Occupation Cluster

Riverside–San Bernardino–Ontario MSA

# Construction Managers (SOC 11-9021) Plan, direct, or coordinate, usually through subordinate supervisory personnel, activities concerned with the construction and maintenance of structures, facilities, and systems. Participate in the conceptual development of a construction project and oversee its organization, scheduling, budgeting, and implementation. Includes managers in specialized construction fields, such as carpentry or plumbing.

# Sample of reported job titles: Concrete Foreman, Construction Area Manager, Construction Foreman, Construction Manager, Construction Superintendent, General Contractor, Job Superintendent, Project Executive, Project Manager, Project Superintendent

# First-Line Supervisors of Construction Trades and Extraction Workers (SOC 47-1011) Directly supervise and coordinate activities of construction or extraction workers.

# Sample of reported job titles: Construction Foreman, Construction Superintendent, Construction Supervisor, Field Supervisor, Foreman, Job Superintendent, Project Superintendent, Site Superintendent, Superintendent, Supervisor

# Job Opportunities

Overall, the construction technology occupation cluster employment is projected to decline one percent between 2015 and 2025 in the Riverside-San Bernardino-Ontario MSA region, losing around 140 jobs. Construction manager employment will shed fewer than 350 jobs, declining eight percent and first-line supervisors of construction trades and extraction workers employment will add more than 200 jobs, increasing three percent. Based on projections for the MSA, there will be more than 210 job openings each year during the five-year projection period due to replacement need for these occupations (e.g. retirements). Construction managers will have nearly 90 job openings and first-line supervisors of construction trades and extraction workers will have almost 130 job openings each year during the projection period. There were 558 total job postings for the occupations in this cluster in 2015, 440 in 2014, and 315 job postings in 2013. Year-to-date 2016, there have been 624 total job postings for the occupations in this cluster.

Exhibit 1: Ten-year occupation projections for the construction technology occupation cluster

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Occupation (SOC) | 2015 Jobs | 2025  Jobs | Ten-Year Change | Ten-Year % Change | Annual Openings |
| Construction Managers (11-9021) | 4,417 | 4,174 | (345) | (8%) | **88** |
| First-Line Supervisors of Construction Trades and Extraction Workers (47-1011) | 6,341 | 6,549 | 208 | 3% | **125** |
| **TOTAL** | **10,758** | **10,621** | **(137)** | **(1%)** | **213** |

Source: EMSI Class of Worker 2016.4

# Earnings

The entry level wages for both occupations in this cluster are above the MIT living wage of $11.75 per hour in the local region. Burning Glass results revealed a mean annual salary of $103,925 for construction managers (only 17 percent of job postings included salary information for this occupation) and $75,135 for first-line supervisors of construction trades and extraction workers (only 22 percent of job postings included salary information).

Exhibit 2: Earnings for the construction technology occupation cluster

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Occupation (SOC) | Entry Hourly Earnings | Median Hourly Earnings | Experienced Hourly Earnings | Annual Average Earnings |
| Construction Managers (11‑9021) | $20.11 | $30.00 | $56.55 | $71,677 |
| First-Line Supervisors of Construction Trades and Extraction Workers (47-1011) | $18.78 | $27.27 | $40.11 | $59,405 |
| **TOTAL** | $19.33 | $28.39 | $46.86 | $64,438 |

Source: EMSI Entry hourly wage is 10th percentile, median wage is 50th percentile, experienced hourly wage is 90th percentile.

# Education

The typical entry level education for construction managers is a Bachelor’s degree. Nearly 80 percent of employers posting jobs for this occupation required a Bachelor’s degree for employment in 2015.

The typical entry level education for first-line supervisors of construction trades and extraction workers is a high school diploma. Nearly 50 percent of employers looking for candidates in this occupation were required to have an education that could be obtained from a California Community College (vocational training or an Associate’s degree).

Exhibit 3: Educational Attainment for the construction technology occupation cluster

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Occupation (SOC) | [Typical Entry Level Education](https://w.economicmodeling.com/analyst/?t=25pT7) | [Work Experience Required](https://w.economicmodeling.com/analyst/?t=25pT7) | Minimum Advertised Education Requirement in Online Job Postings | | |
| **High School or Vocational Training** | **Associate’s degree** | **Bachelor’s degree or higher** |
| Construction Managers (11‑9021) | Bachelor’s degree | None | 18% | 5% | 77% |
| First-Line Supervisors of Construction Trades and Extraction Workers (47‑1011) | High school diploma or equivalent | 5 years or more | 38% | 10% | 53% |

Source: BLS

# Certifications

The top certifications requested by employers looking for construction managers from job posting websites in 2015 were: project management certification (E.G. PMP), certified construction manager, professional engineer, first aid CPR AED, contractor’s license, and North American Board of Energy Practitioners (NABCEP).

The top certifications requested for first-line supervisors of construction trades and extraction workers was: electrician certification, commercial driver’s license, forklift operator certification, and welding certification (E.G. AWS Certified Welder).

# Employer Names and Worksite Locations

According to online job posting in 2015 the top employers looking for construction managers and first-line supervisors of construction trades and extraction workers were: Homeadvisor (17 job postings), Schlumbeger (8), Meritage Homes Construction (8), D.R. Horton (6), Engeryplacement (5), Mastec Incorporated (5), Ryan Contractors (5), the Kleinfelder Group, Inc. (5), and Timberwolff Construction Incorporated (5).

The top worksite locations in 2015 were: Riverside (131 job postings), Corona (62), Rancho Cucamonga (49), San Bernardino (48), Ontario (40), Fontana (30), and Chino (26).

# Student Completions and Training Gap

Exhibit 4 shows the projected 2015-2020 annual job openings for the occupation in Exhibit 1with an associated TOP6 programs. Exhibit 4 also shows the annual average regional community college awards and the total annual average awards for education institutions outside the California Community Colleges system. Please note, an award is not equivalent to a single person in search of a job opening since students may earn more than one award, such as a degree in addition to a certificate. Exhibit 5 shows the training gap of 158 jobs for the construction technology occupation cluster in the local region.

*Exhibit 4: Annual Job Openings and Student Completions in Riverside-San Bernardino-Ontario MSA*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **TOP06** | **TOP06 Title** | **Total Annual Job Openings from Exhibit 1** | **Annual Avg Associate Degrees (2012-15)** | **Annual Avg Certificates or Other Credit Awards (2012-15)** | **Total Other Ed. Annual Avg Awards (2012-15)** |
| 095200 | Construction Crafts Technology | 213 | 4 | 7 | - |
| 095700 | Civil and Construction Management Technology | 2 | 1 | 41 |
| **TOTAL** | | **213** | **55** | | |

Source: Chancellor’s office MIS Data Mart, EMSI

*Exhibit 5: Training Gap in the Riverside-San Bernardino-Ontario MSA*

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