

# Occupational Profile: Mobile Heavy Equipment Mechanics, Except Engines

## GENERAL OCCUPATION DESCRIPTION

Diagnose, adjust, repair, or overhaul mobile mechanical, hydraulic, and pneumatic equipment, such as cranes, bulldozers, graders, and conveyors, used in construction, logging, and surface mining. Exclude "Rail Car Repairers" and "Bus and Truck Mechanics and Diesel Engine Specialists".

Source: O\*NET online. <http://online.onetcenter.org>

## REQUIRED EDUCATION

As shown in the table to right, over 30% of interviewed employers reportedly require a High School diploma or less, while an additional 70% require a two-year degree or the equivalent.

| Required Education                                    |       |
|---|-------|
| Percent of Employers Requiring HS Diploma or Less     | 29.6% |
| Percent of Employers Requiring 2-Year Degree or Equiv | 70.4% |
| Percent of Employers Requiring BS Diploma or More     | 0%    |

Source: Bureau of Labor Statistics

## WAGES

Mobile Heavy Equipment Mechanic is considered a medium to high-wage occupation, with good possibility for wage advancement with experience. Employers in the State of Arizona generally pay comparably as compared with the overall United States.

| Location        | Pay Period | 2005     |          |          |          |          |
|-----------------|------------|----------|----------|----------|----------|----------|
|                 |            | 10%      | 25%      | Median   | 75%      | 90%      |
| United States   | Hourly     | \$12.38  | \$15.36  | \$18.95  | \$22.57  | \$26.95  |
|                 | Yearly     | \$25,800 | \$31,900 | \$39,400 | \$46,900 | \$56,100 |
| Greater Phoenix | Hourly     | \$14.51  | \$16.96  | \$19.77  | \$22.34  | \$24.70  |
|                 | Yearly     | \$30,195 | \$35,294 | \$41,141 | \$46,490 | \$51,401 |
| Arizona         | Hourly     | \$14.17  | \$16.63  | \$19.46  | \$21.84  | \$25.27  |
|                 | Yearly     | \$29,500 | \$34,600 | \$40,500 | \$45,400 | \$52,600 |

Source: Bureau of Labor Statistics

As shown in the table to right, a national comparison of wages for this occupation reveals Arizona ranks 18th in terms of median wages.

| RANK | Location             | Median Wage 2005 |          |
|------|----------------------|------------------|----------|
|      |                      | Hourly           | Annual   |
| 1    | Alaska               | \$26.14          | \$54,400 |
| 2    | Hawaii               | \$23.72          | \$49,300 |
| 3    | Nevada               | \$22.92          | \$47,700 |
| 4    | California           | \$22.79          | \$47,400 |
| 5    | District of Columbia | \$22.55          | \$46,900 |
| 18   | ARIZONA              | \$19.46          | \$40,500 |

Source: Bureau of Labor Statistics

The table below provides a comparison of wages by sub-industry for the Greater Phoenix region (2005). As shown, the main employment sector, "Public Administration," generally pays more than the other main employment sector.

| Wages by Industry: Greater Phoenix MSA (2005) | Rounded Employment | Mean Wage | 10th Percentile Wage | 25th Percentile Wage | Median Wage | 75th Percentile Wage | 90th Percentile Wage |
|---|--------------------|-----------|----------------------|----------------------|-------------|----------------------|----------------------|
| Public Administration                         | 350                | \$21.17   | \$14.82              | \$17.52              | \$21.72     | \$25.27              | \$27.17              |
| Heavy and Civil Engineering Construction      | 290                | \$19.72   | \$14.64              | \$16.80              | \$19.74     | \$22.51              | \$25.76              |
| Rental and Leasing Services                   | .                  | \$19.69   | \$16.10              | \$18.32              | \$20.00     | \$21.68              | \$22.66              |
| Mining (except Oil and Gas)                   | .                  | \$19.66   | \$14.81              | \$17.72              | \$19.85     | \$21.92              | \$24.88              |
| Specialty Trade Contractors                   | .                  | \$18.42   | \$12.66              | \$16.00              | \$18.72     | \$20.87              | \$22.95              |
| Merchant Wholesalers, Durable Goods           | .                  | \$18.66   | \$14.00              | \$15.41              | \$18.59     | \$21.77              | \$24.78              |

## EMPLOYMENT

As shown in the table below, this occupation has a projected 21% growth rate over 10 years (between 2003 and 2013) for the Greater Phoenix region. There are an average projected 65 job openings each year, comprised of 32 new jobs and 33 positions vacated by individuals leaving the field (due to retirement, death, career changes, or other reasons).

|  | 10-YEAR CHANGE |         |                | AVERAGE ANNUAL |        |             |
|--|----------------|---------|----------------|----------------|--------|-------------|
|  | Employment     |         | Percent Change | Job Openings   | Growth | Separations |
| United States                                    | 2004           | 2014    |                |                |        |             |
| Mobile heavy equipment mechanics, except engines | 124,500        | 135,500 | 9%             | 3,800          | n/a    | n/a         |
| Arizona  | Employment     |         | Percent Change | Job Openings   | Growth | Separations |
|  | 2004           | 2014    |                |                |        |             |
| Mobile heavy equipment mechanics, except engines | 2,730          | 3,570   | 31%            | 140            | n/a    | n/a         |
| Greater Phoenix                                  | Employment     |         | Percent Change | Job Openings   | Growth | Separations |
|  | 2003           | 2013    |                |                |        |             |
| Mobile heavy equipment mechanics, except engines | 1,511          | 1,827   | 21%            | 65             | 32     | 33          |

Source: Bureau of Labor Statistics

\*Job Openings refers to the average annual job openings due to growth and net replacement.

Source: Bureau of Labor Statistics

\*\*N/A is displayed in cases where data is not available or cannot be published because of federal data privacy standards.

An additional source of information regarding this occupation can be provided by analysis of employer survey data collected for the Maricopa County Community Colleges by the ERISS Corporation in 2004. As shown, the ERISS survey data shows a projected 1-year growth rate of 2%, which is comparable to the average of 2.1% per year reflected by the BLS data above.

Additionally, the ERISS data provides an indicator of yearly turnover for this occupation, which is reported to be high at 17%.

| ERISS Occupational Survey Data (2004)            |        |          |        |
|--|--------|----------|--------|
| Greater Phoenix                                  | Growth | Turnover | Demand |
| Mobile Heavy Equipment Mechanics, Except Engines | 2%     | 17%      | 19%    |

### Comparison of employment projections for top five regions for Mobile Heavy Equipment Mechanic

As shown in the table to right, a national comparison reveals the State of Arizona ranks 3rd in terms of projected 10-year growth for this occupation (31%).

| RANK | Location       | Employment |       | Percent |
|------|----------------|------------|-------|---------|
|      |                | 2004       | 2014  | Change  |
| 1    | Wyoming        | 1,150      | 1,640 | 43%     |
| 2    | Nevada         | 2,000      | 2,740 | 37%     |
| 3    | <b>ARIZONA</b> | 2,730      | 3,570 | 31%     |
| 4    | Colorado       | 2,260      | 2,850 | 26%     |
| 5    | Utah           | 1,290      | 1,610 | 25%     |

Source: Bureau of Labor Statistics

### Employment by Industry

The table below shows the industries that most commonly employ Mobile Heavy Equipment Mechanic, and the proportion of employment accounted for at the national level. As shown, "Industrial machinery and all other machinery, equipment, and supplies merchant wholesalers" are the largest employer for this occupation (25%).

| Percent of Employment Nationally by Industry |  |
|--|--|
| Percent                                      | Industry   |
| 25.2%  | Industrial machinery and all other machinery, equipment, and supplies merchant wholesalers |
| 7.2%   | Federal Government, excluding Postal Service   |
| 6.7%   | Local government, excluding education and hospitals  |
| 5.8%   | Other specialty trade contractors  |
| 5%   | Highway, street, and bridge construction   |
| 4.6%   | Commercial and industrial machinery and equipment rental and leasing                       |
| 3%   | Self-employed workers, primary job   |
| 2.7%   | Crop Production  |

Source: Bureau of Labor Statistics

### Geo-Location Overlay of Employers with 5 or More Employees that Potentially Employ Occupation (n = 138)

