

2008-2018 REGION 2 OCCUPATIONAL PROJECTIONS, LISTED BY MAJOR OCCUPATIONAL GROUPS WITH WAGES AND TOP SKILLS

Standard Occupational Classification (SOC)	Occupational Title	2008 Estimated Employment	2018 Projected Employment	2008-18 Employment Change	Annual Growth Rate (%)	Annual New Jobs	Annual Replacements	Total Annual Openings	2011 Mean Hourly Wage	2011 Mean Annual Salary	2011 Entry Wage	2011 Entry Annual Salary	2011 Median Wage	2011 Median Salary	2011 Experienced Wage	2011 Experienced Annual Salary	Education/Training Level**	Top Skills***
47-0000	Construction and Extraction Occupations	3,170	3,510	335	1.1	35	55	90										
47-2031	Carpenters	760	880	120	1.6	10	10	20	13.98	29,098	10.60	22,033	13.17	27,394	15.69	32,631	9	B3, T2, T5, B2, SO1, SY1, B5, B6, T8, R4
47-2061	Construction Laborers	470	515	45	1.0	5	5	10	12.95	26,927	8.70	18,101	12.81	26,647	15.07	31,339	10	B9, SO1, B2, B3, T4, T5, SO6
47-2152	Plumbers, Pipefitters, and Steamfitters	335	395	60	1.8	5	5	15	16.76	34,862	11.09	23,080	12.87	26,775	19.59	40,753	9	SO1, R4, B3, T5, B2, SY1, B6, B9
49-0000	Installation, Maintenance, and Repair Occupations	2,210	2,370	160	0.7	20	45	60										
49-9042	Maintenance and Repair Workers, General	475	515	40	0.8	5	5	10	16.81	34,952	11.00	22,897	15.99	33,275	19.70	40,981	10	T1, T9, B3, T2, T11
51-0000	Production Occupations	8,295	8,450	155	0.2	35	180	215										
51-2092	Team Assemblers	1,560	1,685	120	0.8	10	35	45	12.90	26,829	10.41	21,644	13.04	27,106	14.14	29,422	10	SO1, B2, B3, B9, B6, B7
51-4121	Welders, Cutters, Solderers, and Brazers	780	800	20	0.3	*	*	25	15.20	31,625	12.66	26,337	15.06	31,327	16.47	34,269	7	B3, B2, B6, SY1, T4, T5
53-0000	Transportation and Material Moving Occupations	4,180	4,355	175	0.4	20	100	120										
53-3032	Truck Drivers, Heavy and Tractor-Trailer	1,320	1,435	115	0.9	10	25	35	16.14	33,560	11.55	24,025	14.54	30,239	18.43	38,328	11	T4, T5, B6, B2, B3, T8
53-3033	Truck Drivers, Light or Delivery Services	345	365	20	0.6	*	*	10	14.44	30,018	8.36	17,378	11.71	24,355	17.47	36,338	11	B2, B9, B3, B6, T4, SO6
53-7051	Industrial Truck and Tractor Operators	445	465	15	0.3	*	*	15	15.12	31,442	11.33	23,578	15.02	31,224	17.01	35,375	11	T4, T5, SO1, T1, B2, B3, B6
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	960	980	20	0.2	*	*	35	13.09	27,231	9.12	18,972	12.54	26,079	15.08	31,360	11	B2, B3, T5, SO1, B6, B7, B9

Legend:

Entry Wage = Average of the lowest third of reported wages for the occupation; **Experienced Wage** = Average of the upper two-thirds of reported wages for the occupation; **Mean Wage** = Average wage computed by dividing the estimated total wage for an occupation by its weighted employment; **Median Wage** = The point at which 50% of the employment was below this wage and 50% was above; N.A. = Not Available; Compensation data based on 2011 Iowa Wage Survey unless otherwise noted; Wages for *Middle School Teachers, Except Special and Vocational Education* based on 2010 OES data; Missing compensation data may be derived from calculation or proration of reported wage/salary data if available.

***Employment Data Suppression** (Occupational employment data may not add up or equal occupational group totals due to rounding and/or suppression of occupations with less than ten total annual openings).

****Education/Training Level** provides categorically the most significant education or training pathway to employment for each occupation according to the U.S. Department of Labor's Bureau of Labor Statistics (BLS). There may be alternative pathways into an occupation, however, as well as additional educational, training, or licensing requirements. Iowa Workforce Development (IWD) will use Iowa requirements when available. The levels are as follows: 1 = First Professional degree; 2 = Doctoral degree; 3 = Master's degree; 4 = Bachelor's or higher degree, plus work experience; 5 = Bachelor's degree; 6 = Associate degree; 7 = Postsecondary vocational training; 8 = Work experience in a related occupation; 9 = Long-term on-the-job training; 10 = Moderate-term on-the-job training; 11 = Short-term on-the-job training.

*****Top Skills** refers to those skills identified through questionnaire responses by sampled workers and occupational experts by the U.S. Department of Labor's Occupational Information Network (O*NET) as being the top five (or more if tied) most important for a particular occupation. These include:
Basic Skills: B1 = Active Learning; B2 = Active Listening; B3 = Critical Thinking; B4 = Learning Strategies; B5 = Mathematics; B6 = Monitoring; B7 = Reading Comprehension; B8 = Science; B9 = Speaking; B10 = Writing;
Complex Problem Solving Skills: C1 = Complex Problem Solving; **Resource Management Skills:** R1 = Management of Financial Resources; R2 = Management of Material Resources; R3 = Management of Personnel Resources; R4 = Time Management;
Social Skills: SO1 = Coordination; SO2 = Instructing; SO3 = Negotiation; SO4 = Persuasion; SO5 = Service Orientation; SO6 = Social Perceptiveness; **Systems Skills:** SY1 = Judgment and Decision Making; SY2 = Systems Analysis; SY3 = Systems Evaluation; and **Technical Skills:** T1 = Equipment Maintenance; T2 = Equipment Selection; T3 = Installation; T4 = Operation and Control; T5 = Operation Monitoring; T6 = Operations Analysis; T7 = Programming; T8 = Quality Control Analysis; T9 = Repairing; T10 = Technology Design; T11 = Troubleshooting.

Sources:

Education/Training Level: Bureau of Labor Statistics, U.S. Department of Labor; **Employment:** 2008-2018 Occupational Projections (based on 2008 annual employment data), Labor Market and Workforce Information Division, Iowa Workforce Development; **Skills:** Occupational Information Network (O*NET), Employment and Training Administration, U.S. Department of Labor; **Wages:** 2011 Iowa Wage Survey estimates, Labor Market and Workforce Information Division, Iowa Workforce Development. Estimates developed from the May 2010 Occupational Employment Statistics (OES) Wage Survey updated to the second quarter of 2011 using the Employment Cost Index.

This publication was produced by the Labor Market and Workforce Information Division of Iowa Workforce Development. Inquiries may be directed to Brent Paulson at 515.281.3439 or Brent.Paulson@iwd.iowa.gov. Visit <http://iwin.iowaworkforce.org/> to obtain the latest workforce data and trends including this document under the **Publications** tab. Published 12/2011.