



Millwrights

Occupational Profile



DOES THIS DESCRIBE YOU?

Work Interests involve descriptive categories (compatible with Holland's Model) attributed to success in this career:

- **Realistic**—Involves work activities that include practical, hands-on problems and solutions; often dealing with plants, animals, and real-world materials like wood, tools, and machinery.
- **Conventional**—Enjoy following set procedures and routines developed through higher authority; includes working with data and details more than with ideas.
- **Investigative**—Involves working with ideas requiring an extensive amount of research, fact finding, problem solving, and thought analysis.

Work Styles depict worker characteristics conducive for this career:

- **Attention to Detail**
- **Dependability**
- **Integrity**
- **Initiative**
- **Self Control**

Work Values are associated with aspects of work that provide satisfaction in this career:

- **Independence**—Autonomy; working on your own.
- **Working Conditions**—Job security; good working conditions.
- **Support**—Management backing.

Aptitudes reflect an ability to acquire skills and knowledge for success in this career:

- **Arm-Hand Steadiness**
- **Finger Dexterity**
- **Control Precision**
- **Manual Dexterity**
- **Multilimb Coordination**

OVERVIEW

Install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings. Belongs to the Manufacturing career cluster and Maintenance, Installation, and Repair career pathway.

SKILLS & KNOWLEDGE NEEDED

Basic Skills:

- Installation
- Equipment Maintenance
- Operation Monitoring
- Critical Thinking
- Repairing

Technology Skills:

- Computer Aided Design Software
- Enterprise Resource Planning Software
- Spreadsheet Software
- Word Processing Software

Knowledge:

- Mechanical
- Mathematics
- Building and Construction
- English Language
- Engineering and Technology

ESTIMATED & PROJECTED EMPLOYMENT

Occupational Title	2014 Estimated Employment	2024 Projected Employment	2014-24 Employment Change	Annual Growth Rate (%)	Total Annual Openings
Total, All Occupations	1,795,100	1,949,240	154,140	0.9	58,145
Installation, Maintenance, & Repair Occupations	70,155	77,670	7,510	1.1	2,385
Millwrights	840	1,025	185	2.2	35

Source: <https://www.iowaworkforcedevelopment.gov/occupational-employment-and-wages>

2017 WAGE & SALARY (\$)

Occupational Title	Mean Wage	Mean Salary	Entry Wage	Entry Salary	Exp Wage	Exp Salary
Total All Occupations	20.93	43,539	10.09	20,991	26.35	54,813
Installation, Maintenance, & Repair Occupations	21.36	44,429	13.63	28,357	25.22	52,466
Millwrights	26.33	54,767	18.97	39,456	30.01	62,422

Source: <https://www.iowaworkforcedevelopment.gov/occupational-employment-and-wages>

EDUCATION & TRAINING

Education	Work Experience	Job Training
High School Diploma	None	Apprenticeship

A diploma is required for most millwright positions with training received from vocational schools, industry-based programs, and/or apprenticeships. Sources: <https://www.iowaworkforcedevelopment.gov/occupational-projections>, https://www.bls.gov/emp/ep_education_training_system.htm, and <https://www.dol.gov/apprenticeship/>

NATIONAL CAREER READINESS CERTIFICATE (NCRC)

Skill	Median Skill Level	Minimum Skill Level	Maximum Skill Level
Applied Mathematics	4	3	6
Locating Information	4	3	5
Reading for Information	4	3	7
Applied Technology	4	3	6
Business Writing	2	1	2
Workplace Observation	3	2	5
Listening for Understanding	3	3	3

An ACT assessment-based credential issued in determining essential work skills needed for employment success across industries and occupations. The greater the score, the greater the skill level (Bronze = 3, Silver = 4, Gold = 5, Platinum = 6 & higher). Source: <http://www.act.org/content/act/en/products-and-services/workkeys-for-employers/assessments.html>

PRIMARY INDUSTRY SECTORS

(Where are Millwrights Employed?)

Specialty Trade Contractors
Construction
Machinery Mfg
Repair & Maintenance

Source: <https://www.iowaworkforcedevelopment.gov/occupational-projections>



ADDITIONAL SOURCES:

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