

# Industrial Machinery Mechanics



## 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:

- **Dependability**
- **Attention to Detail**
- **Cooperation**
- **Analytical Thinking**
- **Initiative**

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

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

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

- **Spatial Perception**
- **Finger Dexterity**
- **Manual Dexterity**

## OVERVIEW

Repair, install, adjust, or maintain industrial production and processing machinery or refinery and pipeline distribution systems. Belongs to the Manufacturing career cluster and Maintenance, Installation and Repair career pathway.

## SKILLS & KNOWLEDGE NEEDED

### Basic Skills:

- Equipment Maintenance
- Repairing
- Operation Monitoring
- Troubleshooting
- Operation and Control

### Technology Skills:

- Computer Aided Manufacturing Software
- Enterprise Resource Planning Software
- Facilities Management Software
- Industrial Control Software
- Spreadsheet Software

### Knowledge:

- Mechanical
- Engineering and Technology
- Production and Processing
- English Language
- Mathematics

## 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
Industrial Machinery Mechanics	4,470	5,665	1,195	2.7	235

## 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
Industrial Machinery Mechanics	23.79	49,481	17.23	35,833	27.07	56,305

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

## EDUCATION & TRAINING

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Education	Work Experience	Job Training
High School Diploma	None	Long-Term On-The-Job

A diploma is required for most industrial machine mechanics 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](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	7
Locating Information	4	3	6
Reading for Information	4	3	7
Applied Technology	4	3	6
Business Writing	3	2	4
Workplace Observation	3	1	5
Listening for Understanding	2	2	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 Industrial Machinery Mechanics Employed?)

Food Mfg  
 Repair & Maintenance  
 Machinery Mfg  
 Fabricated Metal Product Mfg  
 Agriculture  
 Plastics & Rubber Mfg  
 Transportation Equipment Mfg  
 Paper Mfg



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

## ADDITIONAL SOURCES:

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