

# Industrial Machinery Mechanics

## WHAT THEY DO

Diagnoses problems in production machinery and equipment. Repairs and maintains machinery and equipment in accordance with blueprints, schematic drawings, operations manuals, and manufacturer's specifications. May set up and operate metalworking machinery and tools, such as a lathe, drill press, and grinder to make or repair parts. Belongs to the Manufacturing cluster and Maintenance, Installation and Repair pathway.

## IS THIS FOR YOU?

**Work Interests** are described in the following categories (compatible with Holland's Model) by people who tend to succeed in this career:

- **Realistic** – You are a "doer". You like physical activities and projects. You like to find the answers to problems by doing hands-on work instead of talking about solutions.
- **Conventional**—You are an "organizer". Keeping things neat and organized is important to you. You like working with charts and reports, and work well with power and authority.
- **Investigative**—You are a "thinker". When you have a problem, you like to analyze it and look at different ways to solve it. You like to work by yourself, and you don't like explaining your ideas to other people.

**Work Values** are aspects of work that are satisfying to you. The following work values are generally associated with this career.

- **Working Conditions**—It's very important to you that your work satisfies your needs in areas like salary, job security and your working style preferences, such as working alone, staying busy all the time or having variety in your work tasks.
- **Relationships**—It's very important to you that you have friendly co-workers. You would like to be of service to others without compromising your sense of right and wrong.
- **Independence**—It's very important to you that your work allows you to make decisions on your own. You want to try out your own ideas and work with little supervision.
- **Support** – It's very important to you to know the company stands behind its workers and has competent, considerate and fair management.

**Aptitudes** reflect a person's ability to acquire skills and knowledge. The following aptitudes are important for success in the career:

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



Occupational Profile

## SKILLS YOU NEED

### Basic Skills:

- Active Listening
- Speaking
- Critical Thinking
- Monitoring

### Transferable Skills (applicable in other careers): High level

- Observing and diagnosing mechanical problems
- Repairing mechanical objects

### Medium level

- Following manufacturing blueprints and diagrams
- Following written repair work orders
- Inspecting machines
- Operating computerized diagnostic equipment in mechanics
- Using machinist instruments
- Using mechanics hand and power tools

### Workplace Skills:

#### High level

- Equipment Maintenance
- Operation Monitoring
- Repairing

#### Medium level

- Complex Problem Solving
- Coordination
- Equipment Selection
- Judgment and Decision Making
- Operation and Control
- Quality Control Analysis
- Time Management
- Troubleshooting

Additional skills for this occupation may be found at <http://www.iowaworkforcedevelopment.gov/career-exploration-resources>

Source: <https://secure.ihaveaplaniowa.gov/>

## ESTIMATED & PROJECTED EMPLOYMENT

Occupational Title	2012 Estimated Employment	2022 Projected Employment	2012-22 Employment Change	Annual Growth Rate (%)	Total Annual Openings
Total, All Occupations	1,758,205	1,955,480	197,275	1.1	61,665
Installation, Maintenance, & Repair Occupations	68,585	76,810	8,225	1.2	2,420
Industrial Machinery Mechanics	4,270	5,365	1,090	2.6	230

Source: <http://www.iowaworkforcedevelopment.gov/occupational-projections-0>

## 2015 WAGE & SALARY (\$)

Occupational Title	Average Wage	Average Salary	Entry Wage	Entry Salary	Experienced Wage	Experienced Salary
Total, All Occupations	19.77	41,122	9.55	19,858	24.88	51,755
Installation, Maintenance, & Repair Occupations	20.43	42,500	13.17	27,387	24.07	50,056
Industrial Machinery Mechanics	21.54	44,794	15.47	32,176	24.57	51,102

Source: <http://www.iowaworkforcedevelopment.gov/occupational-projections-0>

## EDUCATION & TRAINING

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

Industrial machinery mechanics typically need a year or more of training after high school. Employers increasingly prefer to hire workers with some education in industrial technology from a community or technical college.

Approved apprenticeship programs/sponsors in Iowa can be found at

[http://access.bridges.com/ext/cp/custom\\_state\\_data/iowa\\_apprenticeship/4990410.htm](http://access.bridges.com/ext/cp/custom_state_data/iowa_apprenticeship/4990410.htm)

Source: <http://www.iowaworkforcedevelopment.gov/occupational-projections-0> and <https://secure.ihaveaplaniowa.gov/>

## NATIONAL CAREER READINESS CERTIFICATE (NCRC)

Skill	Median Skill Level
Applied Mathematics	4
Locating Information	4
Reading for Information	4

This ACT-developed credential demonstrates achievement and a certain level of workplace employability skills. The greater the score, the greater the skill level (Bronze = 3, Silver = 4, Gold = 5, Platinum = 6).

Source: <http://www.act.org/workkeys/analysis/occup.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: <http://www.iowaworkforcedevelopment.gov/occupational-projections-0>

## ADDITIONAL SOURCES:

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