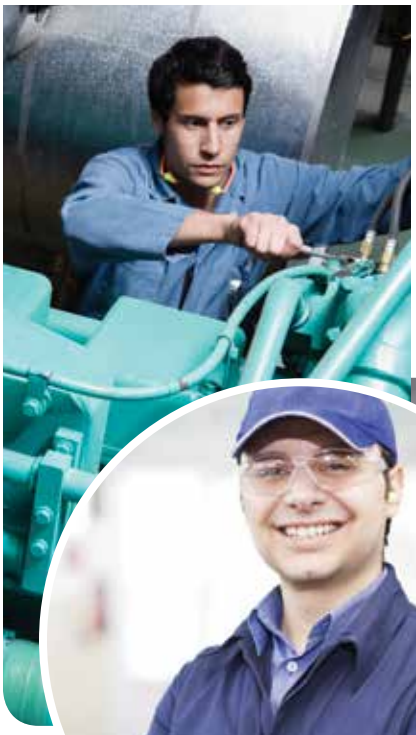

Industrial Machinery Mechanic

About my job:

As an industrial machinery mechanic and maintenance worker, I maintain and repair factory equipment and other industrial machinery. These include conveying systems, production machinery and packaging equipment.

What I do every day:

- Maintain or repair the operating condition of industrial production or processing machinery and equipment
- Replace broken components of machinery or equipment
- Disassemble machinery or equipment to remove parts and make repairs
- Observe and test the operation of machinery or equipment to diagnose malfunctions, using voltmeters or other testing devices
- Reassemble equipment after completion of inspections, testing or repairs
- Clean, lubricate or adjust parts, equipment or machinery
- Examine parts for defects, such as breakage or excessive wear
- Operate newly repaired machinery or equipment to verify the adequacy of repairs
- Evaluate test results, machine error messages, or information obtained from operators to identify equipment problems
- Record parts or materials used and order and requisition new parts or materials

What makes my job Great?

Job growth:
Employment of industrial machinery mechanics and maintenance workers is projected to grow 17 percent from 2012 to 2022. This is due to the need to keep increasingly sophisticated machinery functioning and efficient.

Short-term training:
Employers of industrial machinery mechanics and maintenance workers generally require them to have at least a high school diploma or a General Educational Development (GED) certificate. However, employers increasingly prefer to hire workers with some education in industrial technology from a community or technical college.

Good pay:
The median salary is $44,000 per year. (That means 50 percent earn less than this and the other 50 percent earn more.)

Benefits:
Most mechanics work full time with benefits that may include:

- **Paid vacation**
- **Healthcare**
- **Tuition reimbursement**

How can you become a industrial machinery mechanic?

Academic/training credentials:

A high school diploma is required and additional training/technical skills are usually needed as well.

While it is not required to gain certification in this field to obtain a job, there are many more job opportunities for those who hold certifications.

Work experience/internships:

Experience is not required for entry-level positions. Many employers have on-the-job training programs, providing non-experienced new hires the opportunity to combine their existing skills with new ones required for specific equipment.

Skills and requirements:

- Strong problem-solving skills
- Excellent communication skills
- Troubleshooting skills
- Computer knowledge
- Understanding of pneumatics, hydraulics and mechanical systems
- Strong project management skills

Where you can find jobs:

- Online job boards
- Temporary employment services
- Career fairs
- Networking
- Social Media
- Department of Career Services at colleges

Potential job titles:

- Industrial machinery mechanic
- Industrial mechanic
- Machine adjuster
- Maintenance mechanic
- Maintenance technician
- Master mechanic
- Mechanic
- Overhauler

Potential local employers:

- Avery Dennison
- Component Repair Technologies
- Fredon Corporation
- Jergens Inc.
- Lubrizol
- Swagelok

For Sources/References: See page 04.

Local educational opportunities

Two-year institutions:

- Lakeland Community College: Associate of Applied Science-Computer Integrated Manufacturing Technology (maintenance and repair concentration)
  - Tool room/maintenance machinist apprentice certificate

  Contact Lakeland Integrated Manufacturing Co-Department Chair at 440.525.7168.
- Cuyahoga Community College: Associate of Applied Science in Manufacturing Industrial Engineering Technology
  - Machine tools certificate

Four-year institutions:

- University of Akron: Bachelor of Science in Automated Manufacturing Engineering Technology

Ohio College Tech Prep
Building Quality Career Pathways

High School Tech Prep:

- A-TECH: precision machining program
- Auburn Career Center: advanced manufacturing program
- Lake Shore Compact: CNC manufacturing technology program
- Excel TECC: CADD engineering technology program
- Contact your high school guidance office

Technical schools/certificate programs:

- Auburn Career Center: industrial maintenance certificate program
- A-TECH: industrial maintenance certificate program

Coursework per educational entity:

Secondary pathway:
Manufacturing Operations

Postsecondary program:
Manufacturing; Maintenance and Repair

An Example of Course with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre-Engineering Technologies	
	9 10	English II	Geometry	Biology	World History	Health (.5) PE (.5)	World Languages	
	11	English III	Algebra II	Chemistry	U.S. History	Machine Tools	Machining with Industrial Lathes	World Languages
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Machining with Industrial Milling Machines	Construction Technology	
Postsecondary	Year 1 1st Semester	Introduction to AutoCad	Machining Process	Fundamentals of Public Speaking or Interpersonal Comm.	English Composition	Introduction to Engineering Technology	First Year Experience	Introduction to Technical Mathematics
	Year 1 2nd Semester	Applied Electricity	Materials Processing	Technical Mathematics	Technical Communications	Applied Physics I	Technical Elective	
	Year 2 1st Semester	Power Transmission	Applied Physics II	Arts and Humanities Elective	Technical Elective			
	Year 2 2nd Semester	Fluid and Power Technology	Repair and Maintenance Capstone	Quality Concepts and Techniques	Social and Behavioral Science Elective	Technical Elective		

High School Career-Technical Education Program Courses
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses
Required Courses
Recommended Electives

Ohio Department of Education | Ohio MEANS Jobs | Ohio Board of Regents

How can I grow my career?

Some mechanics complete a 2-year associate degree program in industrial maintenance. Others may start in other factory jobs and learn the skills of the trade on the job, or take courses offered through their employer.

Where could I focus or specialize in my career?

- Production worker
- Machinist
- Welder
- Industrial maintenance worker
- Quality technician
- Materials handling specialist
- Maintenance supervisor
- Safety, security and compliance officer
- Facilities manager
- Plant superintendent
- Industrial or manufacturing engineer

The career ladder

Pre-mechanic/ maintenance training

- Maintenance worker
- High school diploma
- $29,000-$37,440 annual salary

Pre-mechanic/ maintenance training and work experience

- Industrial maintenance technician
- Technical high school diploma and work experience
- $31,000-$52,000 annual salary

Associate degree

- Industrial Maintenance supervisor
- Associate degree and maintenance experience
- $52,000-$72,800 annual salary

Bachelor's degree

- Facilities manager
- Bachelor's degree in engineering and maintenance experience
- $80,000-$130,000+ annual salary

Sources/References:

Ohio Means Jobs, Bureau of Labor Statistics – Occupational Outlook Handbook

O*Net Online-Summary Report, Ohio Labor Market Information