

Maintenance Mechanic/Millwright

A 4-year, 16-credit Apprenticeship (2 years of related instruction)

About the Apprenticeship

Maintenance Mechanic/Millwrights repair and maintain equipment used in manufacturing and other industries. Machine tools, conveyor systems, and specialized maintenance equipment are among some of the types of machinery repaired by maintenance mechanic/millwrights. In addition, students will also learn about hydraulics, welding, pneumatics, electricity, and industrial math.

How to Get Started

- Obtain employment with approval for apprenticeship training.
- The State of Wisconsin oversees the apprenticeship system and will contact WCTC to set a class schedule.
- The schedule will be sent to the student from WCTC (application to WCTC is not necessary by the student).
- For further information, contact the local apprenticeship representative at 262.695.7778 or www.wisconsinapprenticeship.org

Required Courses	Credits
First Semester	
423-500 Maintenance/Millwright I	3
804-504 Industrial Math I	1+
Total semester credits	4
Second Semester	
423-505 Maintenance/Millwright II	3
804-505 Industrial Math II	1+
Total semester credits	4
Third Semester	
419-502 Pneumatics for Apprentices	1
423-515 Maintenance/Millwright III	2
442-505 Welding for Apprentices	1
Total semester credits	4
Fourth Semester	
414-500 Electricity-Apprentices	1
419-501 Apprentice Hydraulics	1
423-520 Maintenance/Millwright IV	2
Total semester credits	4
+ Proficiency exam available	
<i>Curriculum is current as of catalog printing. The most current curriculum requirements for graduation will be provided upon admission to program, or review at www.wctc.edu.</i>	

Maintenance Mechanic/Millwright Required Courses

414-500 Electricity-Apprentices Explore the principles and applications of direct current and Ohm's Law, and examine the various types of circuits and meters during this apprenticeship course. Discuss additional topics such as electrical power, magnetism, relays, energy, and transducers.	1	423-515 Maint Mill III Further develop skills and knowledge as an apprentice in failure diagnosis and maintenance procedures.	2
419-501 Apprentice Hydraulics Gain the knowledge of the uses and applications of hydraulics required in the apprentice trades.	1	423-520 Maint Mill IV Develop skills as an apprentice needed in vibration analysis and other preventive maintenance techniques.	2
419-502 Pneumatics for Apprentices Gain the knowledge of the uses and applications of pneumatics required in the apprentice trades.	1	442-505 Welding for Apprentices Become familiar with various welding applications used in industry.	1
423-500 Maint Mill I Develop skills needed to progress from an apprentice to a competent journeyman by studying safety, blueprint reading, and trade theory.	3	804-504 Industrial Math I Refresh knowledge of applied arithmetic, ratio, and proportion. Develop skills in applied algebra.	1
423-505 Maint Mill II Develop skills as an apprentice in areas such as metallurgy, machine operation and machine repair.	3	804-505 Industrial Math II Study concepts within applied geometry and applied trigonometry during this individualized course. Apply these topics to industrial problems. Prerequisites: 804-504 Industrial Math I	1