

INDUSTRIAL MAINTENANCE TECHNICIAN

Overview

Industrial Maintenance Technician Technical Diploma

Program Code: 32-462-1

For more information: wctc.edu/imt (<http://www.wctc.edu/imt/>)

Industrial maintenance technicians repair and maintain commercial or industrial machinery to ensure proper functionality. In this program, gain practical experience in welding, hydraulics, electricity, mechanical fundamentals and machine alignment. Build skills in electronics, computerized equipment maintenance and preventative/predictive maintenance.

The minimum required course grades and program grade point average (GPA) for students under this catalog are:

Core Courses = C

General Studies Courses = C-

Program GPA = 2.0

Related Certificates that can be earned along the way.

- Maintenance Technician 1 Technical Certificate (<https://catalog.wctc.edu/programs/maintenance-technician-1/>)
- Maintenance Technician 2 Technical Certificate (<https://catalog.wctc.edu/programs/maintenance-technician-2/>)
- Maintenance Technician 3 Technical Certificate (<https://catalog.wctc.edu/programs/maintenance-technician-3/>)

Learning Outcomes

Program Outcomes

1. Demonstrate safe work procedures.
2. Install industrial equipment and systems.
3. Maintain industrial equipment and systems.
4. Troubleshoot industrial equipment and systems.
5. Repair industrial equipment and systems.
6. Communicate technical information.

Critical Life Skills

To help our students prepare for success in a workplace and society that is **increasingly global, multi-cultural, and collaborative**, all students are given opportunities to develop and demonstrate Critical Life Skills, both in and out of the classroom. The following Critical Life Skills are learning outcomes for WCTC students.

- **Communication:** Demonstrate appropriate communication.
- **Critical Thinking/Problem Solving:** Demonstrate critical thinking skills to analyze situations and solve problems.
- **Relationships:** Demonstrate effective interpersonal skills.
- **Self-management:** Demonstrate responsible and respectful behavior.

Required Courses

Listed below are the required courses for the program. To view the recommended sequence for taking courses click on the plan of study tab(s) above. See your Academic Advisor to design a full-time or part-time plan that works for you!

View your **Program Matrix** to find out when each course will be offered (term and time of day).

Code	Title	Credits
Core Courses		
414-186	Industrial Electricity	2
414-396	Industrial Drives and Robotics	2
420-130	Industrial Blueprint Reading 1	2
Approved Substitute: 457-110		
442-303	Related Welding I	2
442-305	Related Welding II	2
462-304	Industrial Safety	2
Approved Substitute: 462-104		
462-314	Basic Maintenance Tools	1
Approved Substitute: 462-350		
462-151	Mechanical Power Trans 1	3
Approved Substitute: 462-350 OR 462-100		
462-167	IMT System Troubleshooting	4
462-326	Machine Tool Alignment	4
462-330	Machine Tool Assessment	4
462-353	Mechanical Power Trans 2	4
462-365	IMT Equip Install & Align	4
462-366	IMT Pump and Piping Systems	4
462-369	Predictive Maint Technologies	3
Approved Substitute: 462-368		
462-370	Fluid Power Systems	3
Approved Substitute: 419-300		
605-129	Elect Pwr Ctrl & Motors	3
605-188	PLC 1	2
612-310	Industrial Hydraulic Systems	2
Approved Substitute: 612-110		
612-315	Industrial Pneumatic Systems	2
Approved Substitute: 612-115		
890-108	Employment Success	1
General Studies		
804-310	Math for Industry	2
Approved Substitutes: 804-107 OR 804-115 OR 804-116 OR 804-118 OR 804-195 OR 804-198 OR 804-305		
806-382	Applied Science	1
Approved Substitutes: 806-139 OR 806-143 OR 806-144 OR 806-188		
Total Credits		59

Full-time Plan

First Year

Fall Term 1

		Credits
420-130	Industrial Blueprint Reading 1	2
run 16 weeks.		

This course will

462-104	Industrial Safety	2
462-314	Basic Maintenance Tools	1
804-310	Math for Industry	2
Credits		7
Fall Term 2		
462-151	Mechanical Power Trans 1	3
462-326	Machine Tool Alignment	4
Credits		7
Spring Term 1		
414-186	Industrial Electricity	2
462-330	Machine Tool Assessment	4
Credits		6
Spring Term 2		
442-303	Related Welding I	2
806-382	Applied Science	1
462-353	Mechanical Power Trans 2	4
Credits		7
Second Year		
Summer Term		
442-305	Related Welding II	2
612-310	Industrial Hydraulic Systems	2
612-315	Industrial Pneumatic Systems	2
Credits		6
Fall Term 1		
462-365	IMT Equip Install & Align	4
605-129	Elect Pwr Ctrl & Motors	3
Credits		7
Fall Term 2		
462-366	IMT Pump and Piping Systems	4
605-188	PLC 1	2
Credits		6
Winter Interim		
890-108	Employment Success	1
Credits		1
Spring Term 1		
414-396	Industrial Drives and Robotics	2
462-167	IMT System Troubleshooting	4
Credits		6
Spring Term 2		
462-369	Predictive Maint Technologies	3
462-370	Fluid Power Systems	3
Credits		6
Total Credits		59