

MAINTENANCE MECHANIC/MILLWRIGHT APPRENTICESHIP

Overview

Maintenance Mechanic/Millwright Apprenticeship

Program Code: 50-423-1

For more information: [wctc.edu/millwright/](http://www.wctc.edu/millwright/) (<http://www.wctc.edu/millwright/>)t (<https://www.wctc.edu/academics/programs-courses/programs/maintenance-mechanic-millwright/>)

Maintenance mechanics/millwrights install, dismantle, repair, maintain and move heavy industrial equipment based on blueprints, layouts or other drawings. Machine tools, conveyor systems and specialized maintenance equipment are among the types of machinery repaired by maintenance mechanic/millwrights. Receive high-quality, hands-on classroom instruction that complements on-the-job apprenticeship training critical for success in the industrial trades.

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

Core Courses = C
Program GPA = 2.0

Build your degree along a career pathway. Start with a couple of courses or an entry-level credential to enter the job market in your area of interest, then continue with higher credentials on your educational path for job advancement and higher wages.

Career Pathway

1. Maintenance Mechanic/Millwright Apprenticeship
2. Technical Studies - Journeyworker

Additional details regarding apprenticeship:

- Obtain further information about apprenticeship programs by visiting the State's Department of Workforce Development website: <https://dwd.wisconsin.gov/apprenticeship> (<https://dwd.wisconsin.gov/apprenticeship/>)
- Secure employment as a State of Wisconsin Indentured Apprentice.
- WCTC will send the schedule to the student; application to WCTC is not necessary by the student.

Learning Outcomes Program Outcomes

1. Demonstrate proper rigging techniques.
2. Select an appropriate power transmission system for a given application.
3. Identify suitable pumps for given applications.
4. Recommend bearings for given applications.
5. Plan for fabricating parts and assemblies according to specifications.
6. Apply operational and troubleshooting principles to fluid power systems.

7. Layout an equipment installation plan.
8. Plan maintenance schedule for a given system.

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

| Code | Title | Credits |
|---|--------------------------------|-----------|
| Core Courses | | |
| 414-500 | Electricity-Apprentices | 1 |
| 419-501 | Apprentice Hydraulics | 1 |
| Approved Substitute: 612-310 | | |
| 419-502 | Pneumatics for Apprentices | 1 |
| Approved Substitutes: 612-315 OR 419-104 | | |
| 423-503 | Industrial Safety Apprentices | 1 |
| Approved Substitutes: 462-104 OR 462-304 | | |
| 423-502 | Apprentice Maintenance Fund | 1 |
| 423-504 | Blueprint for Apprentices | 1 |
| 423-506 | Apprentice Metals Technology | 1 |
| 423-507 | Apprentice Machining | 1 |
| 423-508 | Apprentice Machine Repair | 1 |
| 423-513 | Equipment Install Apprentices | 1 |
| 423-514 | Apprentice Pump Piping Systems | 1 |
| 423-520 | Maint Mill IV | 2 |
| 442-505 | Welding for Apprentices | 1 |
| General Studies | | |
| 804-504 | Industrial Math I | 1 |
| Approved Substitutes: 804-304 OR 804-107 OR 804-113 OR 804-114 OR 804-115 | | |
| 804-505 | Industrial Math II | 1 |
| Approved Substitute: 804-305 OR 804-107 OR 804-113 OR 804-114 OR 804-115 | | |
| Total Credits | | 16 |

Full-time Plan

| | | |
|----------------------|-------------------------------|----------------|
| First Year | | |
| Fall Term 1 | | Credits |
| 423-503 | Industrial Safety Apprentices | 1 |
| 423-504 | Blueprint for Apprentices | 1 |
| 442-505 | Welding for Apprentices | 1 |
| 804-504 | Industrial Math I | 1 |
| Credits | | 4 |
| Spring Term 1 | | |
| 414-500 | Electricity-Apprentices | 1 |

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|----------------------|--------------------------------|-----------|
| 423-506 | Apprentice Metals Technology | 1 |
| 423-507 | Apprentice Machining | 1 |
| 804-505 | Industrial Math II | 1 |
| Credits | | 4 |
| Second Year | | |
| Fall Term 1 | | |
| 419-502 | Pneumatics for Apprentices | 1 |
| 423-502 | Apprentice Maintenance Fund | 1 |
| 423-513 | Equipment Install Apprentices | 1 |
| 423-514 | Apprentice Pump Piping Systems | 1 |
| Credits | | 4 |
| Spring Term 1 | | |
| 419-501 | Apprentice Hydraulics | 1 |
| 423-520 | Maint Mill IV | 2 |
| 423-508 | Apprentice Machine Repair | 1 |
| Credits | | 4 |
| Total Credits | | 16 |