INDUSTRIAL METROLOGY TECHNICIAN APPRENTICE

Overview

Industrial Metrology Technician Apprenticeship

Program Code 50-623-2

For more information: wctc.edu/metrology (https://www.wctc.edu/academics/programs/industrial-metrology-technician/)

Learn to identify measurement needs and perform measurement tasks using tools, equipment, instrumentation and software programs. Gain skills to interpret engineering prints and other technical manufacturing documentation, and learn the fundamentals of computer-aided design (CAD). Get hands-on practice using precision instruments and tools to establish measurement routines for inspecting parts.

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. Industrial Metrology Technician Apprentice
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.

This WCTC program prepares students to obtain the required licensure to be employed/practice in the state of Wisconsin. The College does not guarantee its curriculum matches the requirements for preparation, examinations, or licensure for other states.

Learning Outcomes
Program Outcomes

1. Plan the inspection.
2. Perform appropriate inspection(s).
3. Analyze inspection results.
4. Maintain equipment and gages.
5. Adhere to safety procedures.

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. Work with your Academic Advisor to design a program plan!

Code	Title	Credits
Core Courses		
420-551	Engineering Drawings Appr	1
420-571	Introduction to Solid Modeling	1
420-572	Intro to Manufacturing Process	1
420-573	GD&T Metrology Apprentice 1	1
420-574	Hand & Bench Tool Inspections	2
420-575	Production Part Approval Fund.	1
420-576	GD&T Metrology Apprentice 2	1
420-577	Coordinate Measuring Machine 1	2
420-578	Coordinate Measuring Machine 2	2
455-455	Transition to Trainer	0.8
623-505	Process Improvement Tools	2
General Studies:		
804-504	Industrial Math I	1
804-505	Industrial Math II	1
Total Credits		**16.8**

Full-time Plan

First Year

Fall Term 1		Credits
420-551	Engineering Drawings Appr	1
420-571	Introduction to Solid Modeling	1
420-572	Intro to Manufacturing Process	1
804-504	Industrial Math I	1
	Credits	4

Spring Term 1		
420-573	GD&T Metrology Apprentice 1	1
420-574	Hand & Bench Tool Inspections	2
804-505	Industrial Math II	1
	Credits	4

Second Year

Fall Term 1		
420-575	Production Part Approval Fund.	1
420-576	GD&T Metrology Apprentice 2	1

420-577	Coordinate Measuring Machine 1	2
	Credits	**4**
Spring Term 1		
420-578	Coordinate Measuring Machine 2	2
455-455	Transition to Trainer	0.8
623-505	Process Improvement Tools	2
	Credits	**4.8**
	Total Credits	**16.8**