



# Career EXCErate | Wisconsin

Personalized Job Training and Support Services to Transform Lives

A collaborative program from Goodwill NCW, FVTC and Rawhide



## Career Educational Pathway Industrial Manufacturing Technician Apprentice

### Description

#### Industrial Manufacturing Technician Apprentice 1

The first semester of related instruction includes: an orientation to the trade and manufacturing, followed by the MSSC safety and MSSC quality modules, OSHA-10 certification, blueprint reading, visual inspection, measurement and first aid & CPR training. Manufacturing concepts are introduced and applied in a variety of settings. MSSC modules 1 and 2 are aligned with the learning plans for this course along with the MATC course Machine Trades Math.

#### Industrial Manufacturing Technician Apprentice 2

The second semester of related instruction includes: the MSSC manufacturing processes, production and maintenance awareness modules, along with communication, lean manufacturing, problem solving, and frontline leadership. Manufacturing related concepts are applied to a variety of industrial settings. The course wraps-up with an examination of emerging trends and technologies, and future directions for manufacturing. MSSC learning objectives in modules 3 and 4 are aligned with the learning plans for this course. The MATC Communication for Apprentices course is included but will stand alone for registration and transcript purposes.

#### Mathematics for the Machine Trades

Provides applied mathematics instruction from a review of basic arithmetic, basic algebra, and basic geometry. Math for the Trades involves mathematical concepts used in the field such as angle calculations, calculating horsepower, torque, blueprint reading and visual inspection, and basic mathematics used in statistics regarding concepts of lean manufacturing.

#### Oral & Written Communication for Machine Tool

Introduces basic communication concepts relating to the workplace. This course is designed specifically for the apprentice to acquire the necessary skills of giving instructions, writing a technical memo, and explaining a technical process. Throughout the course, the apprentice will brainstorm, write, edit, revise, and use one-on-one communication delivery in a small group. The course combines lecture and hands-on activities utilizing information from the workplace.

Entrance criteria: High School Diploma or GED/HSED



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## Who Should be in this Program

As an entry-level industrial manufacturing technician, you'll operate industrial production-related equipment, work with manufacturing-related tools and perform work processes related to a wide variety of manufacturing settings. As an apprentice, you'll learn to set up, operate, monitor and control production equipment, as well as, help improve manufacturing processes and schedules to meet customer requirements.

This apprenticeship-training program requires you to first be employed so you can get the most out of on-the-job learning with related instruction in a classroom. When you complete the program, you'll be ready for journey-level work.

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## Program

### Industrial Manufacturing Technician Apprentice

7.5 credits | 264 hours | Jan. 2023, August 2023 and Jan. 2024

- Industrial Manufacturing Technician Apprentice 1 (2.75 credits, 50-420-510)
- Industrial Manufacturing Technician Apprentice 2 (2.75 credits, 50-420-512)
- Mathematics for the Machine Trades (1 credit, 50-420-711)
- Oral & Written Communication for Machine Tool (1 credit, 50-420-712)

## Class Schedule

### Industrial Manufacturing Technician Apprenticeship (Two course cohort, courses combined)

Instructor: Peter Lange

Location: Appleton Campus, Room A156

Term: Spring 2023, Fall 2023

Class Dates: 1/17/2023 - 5/20/2023; 8/21/2023 - 12/16/2023

Schedule: Wednesdays, 7:00 am - 3:30 pm