



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

Coursework in the Industrial Manufacturing Technician Apprenticeship is aligned with Manufacturing Skill Standards Council (MSSC) certification curriculum.

Industrial Manufacturing Technician Apprenticeship 1

The first semester of related instruction includes an orientation to the trade and manufacturing. This is followed by the Safety module which includes OSHA-10 federal certification as well as first aid and CPR training. The Quality module includes blueprint reading, visual inspection, and measurement. Manufacturing concepts are introduced and applied in a variety of settings. First semester learning plans also include the Math for Machine Trades course.

Mathematics for the Machine Trades

Provides applied mathematics instruction including basic arithmetic, basic algebra, and basic geometry. Math for the Trades involves mathematical concepts used in the field such as calculating angles, torque, and horsepower. Blueprint reading, visual inspection and basic statistical concepts of lean manufacturing are also covered.

Industrial Manufacturing Technician Apprenticeship 2

The second semester of related instruction includes the Manufacturing Processes & Production module along with the Maintenance Awareness module. Communication, lean manufacturing, problem solving, and frontline leadership are key topics. Manufacturing related concepts are applied to a variety of industrial settings. The course wraps-up with an examination of emerging trends, technologies, and future directions for manufacturing. The Communication course is integrated with technical material but will stand alone for registration and transcript purposes.

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.

Program

Industrial Manufacturing Technician Apprenticeship

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

- Industrial Manufacturing Technician Apprenticeship 1 (2.75 credits, 50-420-510)
- Industrial Manufacturing Technician Apprenticeship 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

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