INJECTION MOLD SETUP APPRENTICESHIP

Overview

Injection Mold Setup (Plastic) Apprenticeship

Program Code: 50-420-1

For more information: www.wctc.edu/injection-mold (http://www.wctc.edu/injection-mold/)

Injection mold machine setters handle the setup and operation of equipment to produce parts by injecting materials, such as plastic, into a cavity and turning the molded pieces into usable parts for a variety of industries. 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. Injection Mold Setup 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. Classify the structure and properties of plastics.
- 2. Install [and maintain] molds.
- 3. Set-up injection molding machines.
- 4. Compare plastic processes used in the industry.
- 5. Analyze mold design and construction.
- 6. Interpret industrial prints and schematics.
- 7. Apply mathematics to industrial situations.
- Solve problems by troubleshooting equipment components and processes.
- 9. Apply automation principles to injection molding & plastics.

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			
462-506	Schematics-Inj Mold Setup	1	
463-500	Injection Mold Setup Related I	2	
463-501	Injection Mold Related II	2	
463-502	Injection Mold Related III	2	
463-503	Injection Mold Related IV	2	
664-518	Automation for Apprentices	2	
664-519	Automation Setup Apprentices	1	
General Studies			
804-504	Industrial Math I	1	
Approved Substitute: 804-304 OR 804-107 OR 804-113 OR 804-114 OR 804-115			
Total Credits		16	

Full-time Plan

First Yea

First Year		
Fall Term 1		Credits
804-504	Industrial Math I	1
462-506	Schematics-Inj Mold Setup	1
463-500	Injection Mold Setup Related I	2
	Credits	4
Spring Term 1		
463-501	Injection Mold Related II	2
664-518	Automation for Apprentices	2
	Credits	4
Second Year		
Fall Term 1		
419-502	Pneumatics for Apprentices	1
463-502	Injection Mold Related III	2
664-519	Automation Setup Apprentices	1
	Credits	4
Spring Term 1		
Spring reini i		

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	Total Credits	16
	Credits	4
414-500	Electricity-Apprentices	1
419-501	Apprentice Hydraulics	1

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