



# DUAL ENROLLMENT ACADEMY for high school students



## TOOL AND DIE/CNC

### 20-credit Technical Diploma

Producing parts within tolerance requires skill, patience and accuracy, which makes tool and die makers among the most highly skilled of all production workers. Their craft is an exacting one, as the parts they make enable machines to produce a variety of products used in a number of different industries.

Gain hands-on practice and develop skills for the safe, efficient operation of the engine lathe, vertical milling machine and surface grinder. This option stresses the importance of proper machine shop practices including the selection and application of hand tools, the use of precision measuring instruments and layout procedures. Learn to operate computer numerical control (CNC) machines, interpret engineering drawings and use applied mathematics.

### Tool and Die/CNC Courses

Fall Semester	Credits
420-316 CNC Machining Center Operations	2
420-320 Machine Tool Operation 1	4
420-126 Machine Tool Theory	1
420-130 Industrial Blueprint Reading	-
420-186 CNC Machining Center Programming	2

Spring Semester	Credits
420-317 CNC Turning Center Operation	2
420-321 Machine Tool Operation 2	4
420-127 Machine Tool Theory 2	1
420-387 CNC Turning Center Programming	2
420-130 Industrial Blueprint Reading	2

### DEA Students Earn

- CNC Operation Certificate
- CNC Setup Technician Technical Diploma

Continue on your educational pathway using your DEA credits at WCTC.

*Equal Opportunity Affirmative Action Employer/Educator*

**WCTC'S DUAL ENROLLMENT ACADEMY (DEA)** is designed to give high school students a jump start in high-demand occupations, awarding participants with a WCTC credential(s) upon successful completion along with earning high school credits. High school students will spend the majority of their school day, both the fall and spring semesters, at WCTC participating in DEA.

Prospective students should have a strong interest in pursuing a career in their chosen program option. Students must be in good academic standing with a minimum 2.0 high school GPA and also meet the WCTC program requirements. Parental and high school approval is required for a student to be accepted into the program.

### Next Steps

1. Meet with your High School Counselor/Dual Enrollment Coordinator to see if you qualify for WCTC DEA.
2. Attend a Dual Enrollment Informational Session at WCTC.
3. Complete a WCTC Dual Enrollment Academy Application and submit it to your High School Counselor/Dual Enrollment Representative for approval prior to the posted deadline.

[www.wctc.edu/dual-enroll](http://www.wctc.edu/dual-enroll)



WAUKESHA  
COUNTY TECHNICAL  
COLLEGE

Hands-on  
Higher Ed

800 Main Street, Pewaukee, Wisconsin 53072

**Questions?** Contact the Dual Enrollment Academy Coordinator, at 262.691.5557 or [DEA@wctc.edu](mailto:DEA@wctc.edu)

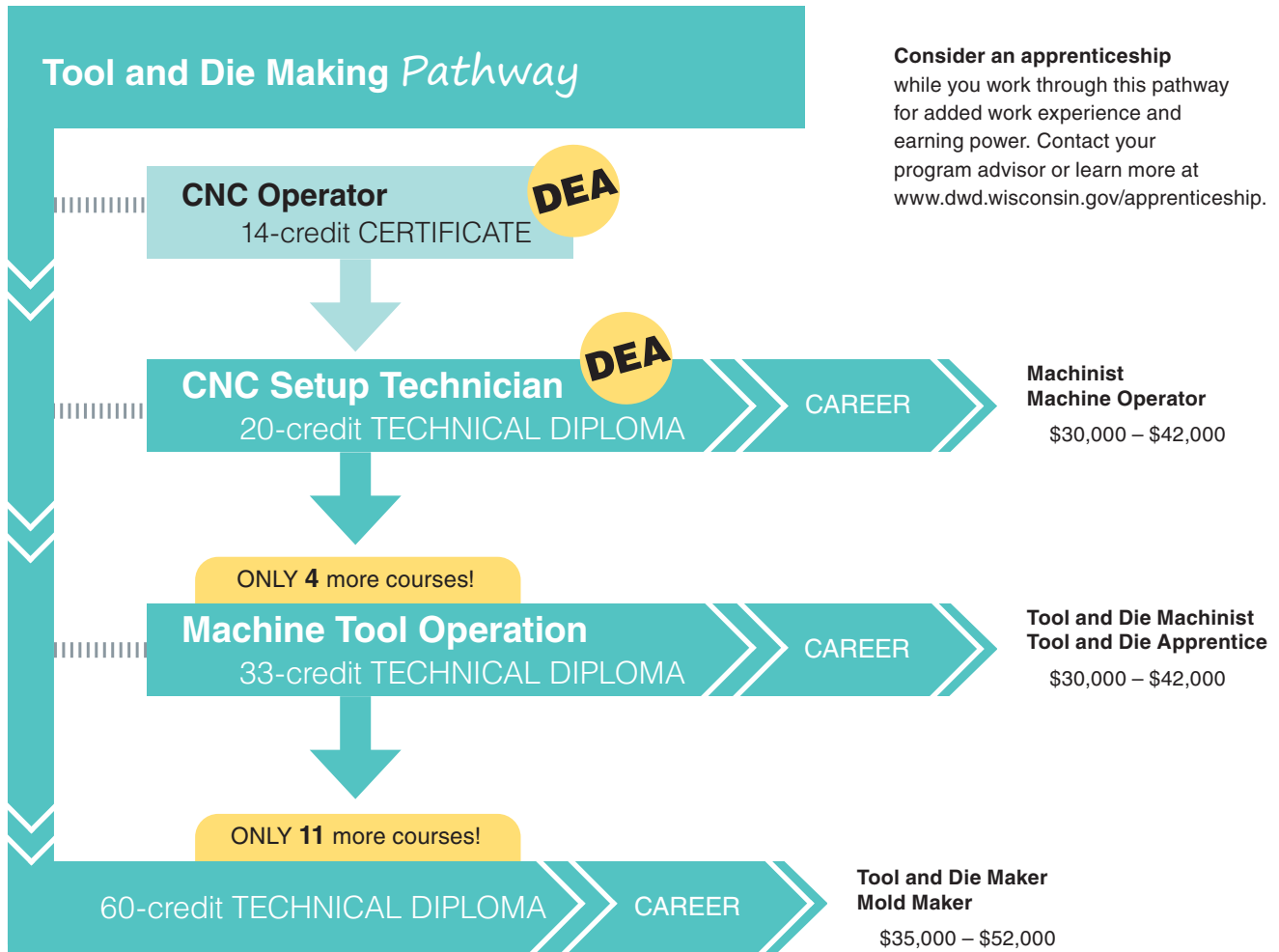
# Tool and Die Making

[www.wctc.edu/tool-die](http://www.wctc.edu/tool-die)

Pathway

**Discuss your pathway with an advisor. Call 262.691.5400 for an appointment.**

Earn certificates, technical diplomas and/or industry credentials along this pathway. Start with some courses for entry-level employment, and continue with additional courses for higher wages and job advancement.



Continue on your educational pathway!

Upon earning a technical diploma, consider enhancing your career by completing WCTC technical certificates or taking non-credit courses in topics related to your field. Additionally, industry-based certifications can provide career advancement.

To qualify for most federal and state financial aid, a student must be enrolled in a technical diploma or associate degree program.

Salary range estimates based on wages for related occupations in Waukesha County as reported by Economic Modeling Specialists International (EMSI). Individual wages may vary based on experience, industry, location and specific job requirements.

WCTC prohibits discrimination or harassment based on any status protected by applicable state or federal law.



WAUKESHA COUNTY TECHNICAL COLLEGE

Hands-on Higher Ed