

## Advanced Manufacturing Technology AAS Degree

The Advanced Manufacturing Technology Program prepares students to perform tasks in today's clean, modern environment. Examples include:

- ▶ Machining
- ▶ Welding
- ▶ Quality control
- ▶ Reading blueprints
- ▶ Computer-generated drawings
- ▶ Problem-solving

DMACC program courses include extensive training in welding and CNC machine operation, plus multiple courses in CAD (Computer-Aided Design) Technology and fabrication.

In addition to earning an AAS degree, students have the opportunity to earn a welding diploma and the following DMACC Certificates:

- ▶ CNC Operator
- ▶ Welding Blueprint Reading
- ▶ Thermal Cutting
- ▶ Production MIG Welding
- ▶ Gas Tungsten Arc Welding
- ▶ Shielded Metal Arc Welding
- ▶ Gas Metal Arc Welding

*"Without the schooling and all the training I went through at DMACC I would not be where I am today—working at a job I love."*

—Josh, Tool & Die, AAS

For more details on Tool & Die certificates, diplomas and degrees, visit [www.dmacc.edu/programs/toolanddie](http://www.dmacc.edu/programs/toolanddie).

## Tool & Die Program

Take the next step toward an interesting, rewarding career at the center of advanced manufacturing with DMACC's Tool & Die program. Contact us for more information and help enrolling.

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**DMACC**  
DES MOINES AREA  
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800-362-2127 | [www.DMACC.edu](http://www.DMACC.edu)



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DES MOINES AREA COMMUNITY COLLEGE

# Tool & Die



**GREAT CAREERS AT THE HEART  
OF MANUFACTURING**

**DMACC**  
DES MOINES AREA  
COMMUNITY COLLEGE  
**Life's Calling™**

[www.dmacc.edu/programs/toolanddie](http://www.dmacc.edu/programs/toolanddie)  
800-362-2127

## Build Skills that are Critical to Modern Manufacturing

If it weren't for tool and die makers, there would be no manufactured goods. Tool and die makers use exacting precision to create molds that shape plastic, the tools needed for the manufacturing process, and the dies used to stamp out machine parts.

### DMACC's Tool & Die Program can prepare students for these jobs and others:

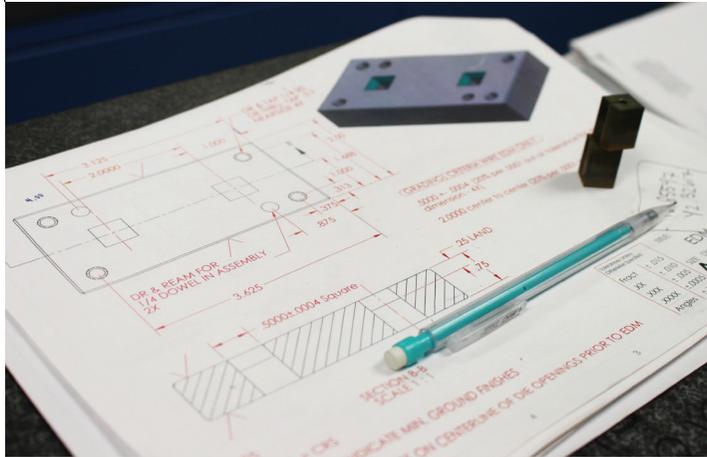
- ▶ General Machinist
- ▶ Maintenance Machinist
- ▶ CNC Lathe or Mill Operator
- ▶ Quality Technician
- ▶ Engine (Automotive) Machinist
- ▶ Gunsmith
- ▶ Electrical Discharge Machining (EDM) and Programming
- ▶ Tool Designer and Drafter/Detailer
- ▶ Die, Mold, Fixture and Other Tools Maker

Associate's Degree graduates also have a solid foundation for continued study to become mechanical, production or manufacturing engineers.

DMACC offers the education needed to land a good-paying job that lets you play a critical role in the manufacturing of everything from toasters to tractors.

### Talented Faculty and Top-of-the-Line Equipment

DMACC students learn from instructors with extensive tool and die work experience and a passion for using their expertise to help the next generation enter the trade. Students also learn how to operate the same top-of-the-line equipment they'll find in the workplace.



### DMACC's Comprehensive Tool & Die Program

The Tool & Die program offers students their choice of certificate, diploma, or two-year associate's degree courses to fit their abilities and job interests. Many students use their certificate or diploma to find a job in the field, which lets them build experience and income as they continue working toward an associate's degree.

### CNC Operator Certificate

18 credit hours — Get a good-paying job after just two semesters. CNC operators interact with the computer-numerical-controlled (CNC) machines that are used in the manufacturing world to form, shape, and cut such materials as steel, aluminum, and plastics into precision parts for virtually every manufactured product. CNC operators are responsible for loading and unloading workpieces, downloading and editing programs, and measuring the quality of the workpieces they produce.

### Machinist Technology Diploma

48 credit hours — Machinists are craftspeople who use manual and computer-controlled metalworking machines to produce unique mechanical parts—for instance, a custom-built suspension components for a race car. Courses train students on how to use everything from computer-controlled machines to manual milling machines. Machinists enjoy a high degree of creativity and problem-solving and the wide variety of projects that come with the job.

### Die Making Diploma

48 credit hours — The Die Making Diploma program builds on skills learned in the Machinists Technology program and hones them for manufacturing and troubleshooting complex mechanical assemblies. Students will learn the skills required to make the dies and molds that are used to manufacture metal and plastic parts, and to build the jigs and fixtures required for mass manufacturing and the manufacture of specialized machines.

### Tool & Die Making AAS Degree

84 credit hours — Students who earn Machinist Technology and Tool and Die Diplomas will receive an AAS degree in Tool and Die Making. In general, an associate's degree qualifies students for the widest spectrum of jobs with higher potential pay within the Tool & Die field.

