

# Tech WORKS

## Advanced Manufacturing



### Steps to complete a Tech WORKS Certification in Advanced Manufacturing:

At least eight total classes in Career Technology Education Department with

**Required courses:**

- Computer Aided Drafting & Design (CADD)\*
- Small Engines
- Customer Service Strategies\*\*
- Woods
- Metals

**Area of emphasis classes in the Advanced Manufacturing Career Pathway (select at least three):**

Select an area to emphasize in or take all courses and be prepared for both:

**CNC Operation**

- Machine Operations I: INT 355\*\*
- Architectural CAD\*
- Manufacturing
- Computer Technical Drafting

**Welding**

- Basic Gas Metal Arc Welding: INT 366\*
- Flame/Plasma Cutting Fundamentals: INT 368\*\*
- Architectural CAD\*
- Manufacturing
- Computer Technical Drafting

**OSHA 10-Hour training**

- Teacher sign off when training is completed

**Attend three career fairs**

- Teacher sign off when tasks are completed
- 50 word summary about what the student observed and learned

**Attend two plant tours**

- Teacher sign off when tasks are completed
- 50 word summary about what the student observed and learned

**Complete one informational interview and a mock interview**

- Completed by end of junior year
- Teacher sign off when tasks are completed

**National Career Readiness Certificate**

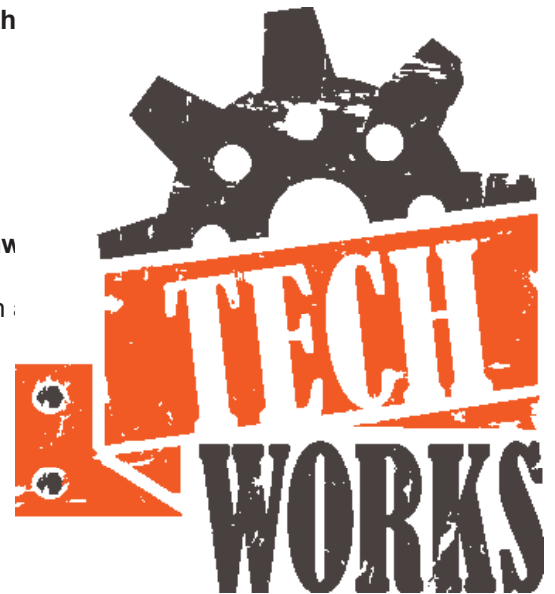
**Go on at least one community college/college/university/apprenticeship program tour**

- Admissions representative to sign off on "college tour" form
- 50 word summary about what the student observed and learned

**Students cannot have more than one unexcused absence, be in class on time and demonstrate cell phone etiquette during classes**

**Community service project that is career related**

All students will successfully fulfill all DCSD requirements for graduation to be considered for a Certification



**Dubuque**  
COMMUNITY SCHOOLS

**dw** dubuqueworks  
a workforce initiative

Funded in part by the City of Dubuque, Mystique Casino,  
and the Dubuque County Board of Supervisors.

**NORTHEAST IOWA**  
COMMUNITY COLLEGE  
student driven...community focused

Prosperity [eastern iowa]



\* Articulated classes - Allows high school students to earn college credit through agreements between their high schools and Northeast Iowa Community College. Area school districts and NICC agree on core competencies and performance levels to ensure credits are transferable to the College.  
\*\* Concurrent classes - These classes enable high school students who have met the eligibility requirements of the College and high school to take college coursework.