

MANUFACTURING TECHNOLOGY

PROGRAM DESCRIPTION

This certificate is comprised of six stackable certificates*: Basic Manufacturing, Basic Manufacturing CAD, Advanced Manufacturing CAD, Basic Power Generation, Electrical for Manufacturing, and Manufacturing-Automation for Metals Joining and Severing Processes and one additional course. Students who complete the six stackable certificates and this certificate will also earn an OSHA-10 Construction Safety Card or an OSHA-30 Construction Safety Card and NCCER certification in demonstrated skills.



CTE STANDARDS

[SYLLABUS](#)

SCOPE & SEQUENCE

[CERTIFICATE SHEET](#)

JOB OUTLOOK

Successful completion of a certificate within the Manufacturing program may lead to employment in a variety of different occupations and industries. Related occupations carry annual median wages of \$32,656 to 56,154, some occupations may require additional education or training.

COST REQUIREMENTS

Upon Acceptance in to Program -

- AWC Tuition and books paid for by STEDY
- \$ 25.00 STEDY Enrollment fee



[www. STEDYcte.org](http://www.STEDYcte.org)

STEDY Office

928-366-5884

stedy@stedy01.org

STUDENTS REQUIREMENTS

- ◆ English with a "C" or better
- ◆ CTED district resident
- ◆ Enrolled in High School
- ◆ Minimum GPA of 2.0
- ◆ On track with credits/courses towards graduation
- ◆ History of good attendance
- ◆ Two Year Program commitment
- ◆ YCAT Provided or transportation is the responsibility of the

Next Steps, College Majors!



Manufacturing Technology Year I

YEAR ONE Grade Level: 10, 11 Course Length: semesters
 Location: AWC Wellton CIP:
 Credit: 3-4 credit AWC course = .5 High school elective credit / 5 credit

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|--------|---------|---|----------|
| FALL | MFG 185 | Quality Control and Inspection | 3 Credit |
| | MFG 201 | Machinery/Indust. Valve & Pump, Maint. & Repair | 3 Credit |
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| SPRING | MFG 195 | Materials Science and Metallurgy | 3 Credit |
| | CNC 101 | CNC Machine Operator | 3 Credit |

Manufacturing Technology Year II

YEAR TWO Grade Level: 11, 12 Course Length: semesters
 Location: AWC Wellton CIP:
 Credit: 3-4 credit AWC course = .5 High school elective credit / 5 credit

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| FALL | DFT 100 | AutoCAD 1 –Drafting | 3 Credit |
| | DFT 180 | CAD with SolidWorks | 3 Credit |
| | WLD 109 | Gas Metal Arc Welding | 3 Credit |
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| SPRING | CNC 201 | Computer Aided Programming for CNC Machines | 3 Credit |
| | ECT 240 | Power Generation Operation, Maint. & Repair | 3 Credit |
| | WLD 201 | Automation for Metals joining & Severing Proc. | 4 Credit |

Total 31 Credits