

Advanced Manufacturing



**ADVANCED
MANUFACTURING**

TWO-YEAR PROGRAM - 900-hour program

Develop an understanding of the impact of AI, robotics, and automation on modern manufacturing processes.

Cultivate technical proficiency in industry-standard equipment and apply skills in electrical hydraulic and pneumatics systems as well as programmable logic controllers (PLCs).

Develop the ability to troubleshoot complex systems and operate in cleanroom environments.

PROGRAM REQUIREMENTS*

- Current Sophomore, Junior, and Senior students may apply
- One credit of English with a C or better
- One credit of Math with a C or better
- Copy of unofficial transcript
- Proof of residency in West-MEC district boundaries
- Copy of birth certificate and immunizations/State Exemption Form due at the time of enrollment
- Students who do not meet program requirements may apply under a "Student Success Action Plan" through their high school counselor.
- Transportation is not provided by West-MEC. Families are responsible for providing transportation to and from West-MEC.

*Program requirements are subject to change per industry age restrictions, credentials requirements, and administrative discretion.

Meeting application criteria does not guarantee enrollment.

COST REQUIREMENTS

Upon enrollment into the program:

- \$150.00 non-refundable registration fee includes enrollment processing, supplies, leadership development, & uniform shirts. Other uniforms/supply requirements are the responsibility of the student.
 - Leadership development training is embedded through membership and participation in the Career and Technical Student Organization | Skills USA.
- It is recommended that students have access to a personal computer and reliable internet outside of class to complete assignments and projects.
- Dress code is reviewed annually to meet professional industry standards. Dress code requirements will be addressed prior to the start of classes.
- Success in the program depends upon the student having access to a personal computer (no iPad or tablet) and reliable internet outside of class to complete assignments and tests.

Tuition

- Optional dual enrollment will result in additional fees.
- If a student graduates or obtains a GED prior to program completion the student will be responsible for tuition.
- Empowerment Scholarship Account (ESA) recipients are responsible for tuition. West-MEC is an approved vendor.
- Student Tax Credit (STO)/Private School Scholarship recipients are responsible for tuition.
- Students who reside outside of West-MEC boundaries are responsible for tuition.
- Details regarding tuition costs are available at [Tuition Payment Agreement](#).

INDUSTRY CERTIFICATION

If eligible, students will have the opportunity to test for the following credentials.

TEST FEES PREPAID BY WEST-MEC; It is the responsibility of the student to maintain copies of all earned credentials.

- This industry credential is preferred for employment in the field. Candidates with this industry credential are likely to be given priority in hiring over others who do not hold it
 - NC3 Introduction to Mechatronics Industry 4.0
 - NC3 Fundamentals of Fluid Power - Hydraulics/Pneumatics Level 1 and Applied Fluid Power Technology Level 2
 - NC3 Fundamentals of Electricity - AC/DC
 - NC3 Applied Motor Controls
 - NC3 Fundamentals of Industry 4.0 Smart Sensors
 - NC3 Fundamentals of Robotics and Applied Robotics
 - ROOTS EDU Cleanroom Certification - SemiConductor and Automation Technology
 - OSHA-10 General

CAREER PATHWAYS

- Graduates of this program should qualify for a variety of careers as on-the-job trainees or apprentices in fields such as Robotics Technician, Automation Technician, Manufacturing Technician, Instrumentation Technician, Process Controls, Mechanical Technician, Engineering Technician, Industrial Plant Operations, and CTE teacher*
- Entry-level salary range: \$18.32 - \$28.60 per hour**

*with additional education in this pathway | **Bureau of Labor Statistics, Occupational Employment & Wages

Program information may change as West-MEC strives to provide the best opportunities for students. Refer to www.west-mec.edu for the most current information. Program is taught by industry-certified instructors. West-MEC does not discriminate on the basis of race, color, national origin, gender, age, or disability in admission to its programs, services, or activities, in access to them, in treatment of individuals, or in any aspect of their operations.



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LOCATION & HOURS

West-MEC Northeast Campus:

1617 W Williams Drive
Phoenix, AZ 85027
623.872.6260

Monday - Friday

1st Year: 1:00 PM - 3:30 PM
2nd Year: 7:00 AM - 9:30 AM

NOTE: West-MEC & high school calendars may not align & transportation is provided by the student/parent.

ENROLLMENT INFORMATION

- Acceptance into West-MEC programs may be competitive.
- Students may only be enrolled in **one** West-MEC Central Program at a time.
- The order for filling seats by grade level is as follows:
 - Current Sophomores
 - Current Juniors*
 - Current Seniors*
- Applications are ranked, in part, by attendance, GPA, discipline, and career choice (ECAP)
- Program hours are not excused for participation in extracurricular activities, athletics, vacation, or employment.
- West-MEC priority application submission date is in February. Contact your school counselor for your school's application deadline.
- West-MEC provides accommodations and modifications identified in the IEP/504 for high school students. Students who graduate from high school or have a GED will not be eligible for IEP services. Graduated students will need to self-advocate for reasonable accommodations that are aligned with industry certifications.

STUDENT SUCCESS INDICATORS

- History of good attendance and discipline, and on track for graduation
- Strong interest in a chosen career pathway
- Manual dexterity and physical ability to use tools, equipment, and machinery
- Ability to get along with other students and cooperate with the instructor
- Ability to work accurately/follow procedures to an industry-standard
- Strong technical reading and study skills; the textbook for this course is written at the college reading level

GRADING SCALE

Grade	A	B	C	D	F
Percent	90%-100%	80%-89%	70%-79%	60%-69%	59% or below

CREDITS ISSUED BY WEST-MEC

- High School - 6 elective credits (3 elective credits per year; 1.5 high school credits are awarded each semester)
- This program satisfies AZ University's admissions requirements. (AZ Board of Regents CTE/Fine Arts credit)

EARLY COLLEGE PATHWAYS (OPTIONAL)

West-MEC offers a faster way forward through early college pathways, and we strive to provide robust post-secondary opportunities for students. For more information on Early College Pathways applicable to your program, check out our website on:

- [Early College Pathways](#)



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