

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
- A Rubric Score of 42 or above (70 points possible). Rubric scores are calculated by the student's high school counselor.
- 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
- 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.

*Students who do not meet program requirements or have a rubric score of 41 or below will be placed on a Student Success Action Plan (SSAP). High School counselors will work with the student to develop an SSAP for consideration of acceptance at the end of semester two, based on program availability.

Meeting application criteria does not guarantee enrollment.

COST REQUIREMENTS

Upon enrollment into the program:

- \$150.00 non-refundable registration fee includes enrollment processing, supplies, CTSO Membership, & uniform shirts. Other uniforms/supply requirements are the responsibility of the student. Registration fees are non-refundable.
 - CTSO Leadership development training is embedded through membership and participation in the Career and Technical Student Organization | Skills USA.

Optional Costs:

- It is recommended students have access to a personal computer and reliable internet outside of class to complete assignments and projects.

Tuition requirements apply to the following students. Details regarding tuition costs are available at [Tuition Fees](#) on the West-MEC website.

- Empowerment Scholarship Account (ESA) recipients. West-MEC is an approved vendor.
- Student Tax Credit (STO)/Private School Scholarship recipients.
- Junior applicants who will become a senior in a two-year program
- Will graduate from high school before completing their West-MEC program
- General Educational Development (GED) recipients
- Foreign Exchange students
- Residents outside of West-MEC boundaries

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 (**Only Available At Northeast Campus**)
 - 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*
- Arizona Entry-level salary range: \$20.00 - \$38.91 per hour**
- National Entry-level salary range: 23.00 - \$35.53 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.

Revised 07/21/2026



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LOCATION & HOURS

West-MEC Northeast Campus:

1617 W Williams Drive
Phoenix, AZ 85027
623.435.4920

Monday - Friday

1st Year: 1:00 PM - 3:30 PM

2nd Year: 7:00 AM - 9:30 AM

West-MEC Southeast Campus:

3300 N 93RD Ave
Phoenix, AZ 85037
623.278.9100

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 is 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 the beginning of the second semester. Contact your school counselor for your school's Priority 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

- Strong interest in chosen career pathway.
- History of good attendance and discipline, and on track for graduation.
- Ability to work well with others 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
- Uniforms are reviewed to meet professional industry standards. Dress code requirements are addressed before the start of classes.
- Manual dexterity and physical ability to use tools, equipment, and machinery

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 High School 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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