Automation & Robotic Systems

West-MEC 2027-28



ONE YEAR PROGRAM - 450-hour program

- Develop an understanding of industrial automation control system set-up, management, maintenance, and application.
- Cultivate technical proficiency in the integration of artificial intelligence into manufacturing processes, ensuring a comprehensive skill set for modern industrial applications.
- Develop advanced skills to automate motions within industrial processes, utilizing machines, robots, and cutting-edge control systems. Apply modern statistical quality control to an industrial process.

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

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 CREDENTIALS

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
    - OSHA 10 General Industry Safety and Health
    - NC3 Fundamentals of Industry 4.0
    - NC3 Introduction to Mechatronics
    - NC3 Fundamentals of Robotics
    - NC3 Applied Robotics Fundamentals of Electricity- Direct Current
    - Universal Robots Academy: EDU Certification
    - Smart Automation Certification Alliance (SACA) Certified Industry Level 1

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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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

LOCATION & HOURS

West-MEC Southwest Campus:
500 N. Verrado Way
Buckeye, AZ 85326
623.872.6260

Monday - Friday
Session 1: 7:00 AM - 9:30 AM
Session 2: 1:00 PM - 3:30 PM

NOTE: West-MEC & high school calendars may not align and all 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 and 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 a 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 - 3 High School Elective Credits (1.5 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 is available on our website:

- Early College Pathways

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