

# Automation & Robotic Systems



## 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 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 program requirements 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 students have access to a personal computer and reliable internet outside of class to complete assignments and projects.
- Dress code is reviewed to meet professional industry standards. Dress code requirements are addressed prior to the start of classes.
- Optional dual enrollment will result in additional fees.

Tuition

- 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 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
  - NC3 Introduction to Mechatronics
  - NC3 Fundamentals of Fluid Power - Hydraulics/Pneumatics Level 1 and Applied Fluid Power
  - NC3 Fundamentals of Electricity - AC/DC
  - NC3 Fundamentals of Sensor Technology
  - NC3 Fundamentals of Industry 4.0
  - NC3 Fundamentals of Robotics and Applied Robotics
  - Universal Robots - Educational Robotics Training Core Certificate
  - OSHA-10 General

Program information may change as West-MEC strives to provide the best opportunities for students. Refer to [www.west-mec.edu](http://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 85374  
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 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 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 - 3 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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