

AUTOMATION, INDUSTRIAL, AND ROBOTICS TECHNOLOGY

The Automation, Industrial, and Robotics Technology program provides coursework, competencies, and experiences to prepare students for success in engineering technology, electronics, mechanical, industrial maintenance, CAD, robotics, automation, communications, instrumentation, and telephony. It focuses on preparing students for entry-level electrical and industrial maintenance positions through classroom study of electrical theory and practical lab applications. The program covers maintenance requirements, safety practices, workmanship, and trade principles, training students for multi-skilled maintenance roles in factories, hospitals, hotels, etc., with courses in electricity, machine tool, metal fabrication, and welding. The Associate of Applied Science Degree tracks include Automation and Robotics, Instrumentation, Manufacturing Maintenance, Electronics, and Mechatronics.

DEGREE

- Automation, Industrial, and Robotics, Technology - AAS (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/automation-industrial-and-robotics-technology-aas/>)
 - Automation and Robotics Specialization Track (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/automation-industrial-and-robotics-technology-aas/#automationandroboticsspecializationtrack>)
 - Electronics Automation Technician Track (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/automation-industrial-and-robotics-technology-aas/#electronicsautomationtechniciantrack>)
 - Instrumentation and Process Control Technician Track (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/automation-industrial-and-robotics-technology-aas/#instrumentationandprocesscontroltechniciantrack>)
 - Manufacturing Maintenance Track (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/automation-industrial-and-robotics-technology-aas/#manufacturingmaintenancetrack>)
 - Mechatronics Specialization Track (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/automation-industrial-and-robotics-technology-aas/#mechatronicsspecializationtrack>)
- Electronics Automation Technician Level II - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/electronics-automation-technician-level-ii-certificate/>)
- Instrumentation and Process Control Technician Level I - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/instrumentation-and-process-control-technician-level-i-certificate/>)
- Instrumentation and Process Control Technician Level II - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/instrumentation-and-process-control-technician-level-ii-certificate/>)
- Manufacturing Maintenance Technician Level I - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/manufacturing-maintenance-technician-level-i-certificate/>)
- Manufacturing Maintenance Technician Level II - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/manufacturing-maintenance-technician-level-ii-certificate/>)
- Mechatronics Level I - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/mechatronics-level-i-certificate/>)
- Mechatronics Level II - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/mechatronics-level-ii-certificate/>)

CERTIFICATES

- Automation and Robotics Level I - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/automation-and-robotics-level-i-certificate/>)
- Automation and Robotics Level II - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/automation-and-robotics-level-ii-certificate/>)
- Electronics Automation Technician Level I - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/automation-industrial-and-robotics-technology/electronics-automation-technician-level-i-certificate/>)