HIGH WAGE + HIGH DEMAND

Industrial Machine/ Maintenance Technology

[MANUFACTURING]

WASHBURN TECH UNIVERSITY

Elevate yourself in the job market by choosing a career in industrial machine/maintenance technology. Our graduates troubleshoot, repair and maintain industrial machinery and equipment to keep production lines and distribution systems running. Lost production time is lost revenue. This career can turn you into a key player in a company's game plan.

LEARNING AT WASHBURN TECH

The Industrial Machine/Maintenance Technology program prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as pumps, electric motors, conveyor systems, production machinery, robotics and automation. Instruction includes electrical theory, wiring, motor controls, 3-Phase/Single Phase/DC motors, programmable logic controllers (PLC), hydraulics and pneumatics, mechanical systems, welding and robotics. Students also learn to read various types of schematic drawings. Students have the option of completing a 27-credit-hour Cert A, 51-credit hour Cert C, or an Associate of Applied Science (AAS) degree. Please see a recruiter for details.

JOB AND SALARY OUTLOOK

Area manufacturers are agressively hiring people with industrial maintenance skills. According to the Kansas Department of Labor, an industrial machinery mechanic earned an average wage of $28.43 - $39.07 an hour or $59,138 - $81,275 annually.

ENTRY REQUIREMENTS

For dual-credit high school students submission of an application, official partial transcript, and consent to enroll form are required. Adult students must complete an application and submit an official copy of all transcripts. Please see an admissions counselor for details.

CERTIFICATIONS

+ OSHA-10

Build your best self.

TALK TO AN ADMISSIONS COUNSELOR TODAY!

785.670.2200

CAREERS IN IMMT »

+ factory maintenance
+ crane oiler
+ millwright
+ boilerhouse
+ foundry equip. mechanic
+ hydroelectric mechanic
+ bag machine adjuster
+ product line mechanic

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Industrial Machine/Maintenance Technology

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COURSE DESCRIPTIONS

OSHA - 10 Hr Gen Industry Cert
Covers general safety, workplace safety and first aid

WORKPLACE SKILLS
Covers effectiveness, team work and critical thinking

TECH MATH II
Covers concepts that build on problem-solving skills using geometry and algebraic expressions

AC/DC CIRCUITS
Introduces the basics of alternating current and direct current circuits

MECHANICAL SYSTEMS & MECHANICAL SYSTEMS RELIABILITY
Covers mechanical energy transmission concepts

ELECTRICAL CONTROL SYSTEMS I & II
Introduces electrical control systems and provides an understanding of reversing motor circuits, solid state devices and system integration

INDUSTRIAL FLUID POWER & ADVANCED FLUID POWER
Focuses on hydrodynamics, hydraulic principles, hydraulic circuitry and diagrams, piping and valves

ADVANCED ELECTRICAL CONTROL SYSTEMS*
Builds on concepts covered in previous course

PROGRAMMABLE LOGIC CONTROLLERS I & II*
Examines types, installation, programming and troubleshooting of programmable logic controllers (PLC)

INDUSTRIAL PROCESS CONTROL*
Covers different types of process control systems

COMMERCIAL & INDUSTRIAL WIRING*
Covers routing, labeling and installation of wiring and components in an electrical control panel as well as wiring electric motors and external devices

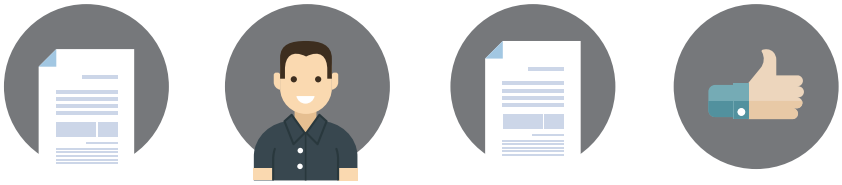
INDUSTRIAL ROBOTICS*
Examines types, applications and troubleshooting of industrial robots and subsystems

ROBOTICS II*
Focuses on sensors, end effectors, control systems and maintenance

INDUSTRIAL PUMPS*
Focuses on basic pump principles, centrifugal pumps, magnetic drive pumps, diaphragm pumps, gear pumps, metering pumps and pump seals. Various pumps will be inspected, disassembled, reassembled and installed in working systems.

***Indicates Cert C classes only**

APPLICATION CHECKLIST



MEET WITH ADMISSIONS

SUBMIT TRANSCRIPT(S)

ENROLL IN CLASSES

2026-2027 PROGRAM COSTS - CERT A (Estimated)

	HIGH SCHOOL	ADULT
Tuition	$855	$4,617
All other fees	$235	$829
TOTAL	**$1,090**	**$5,446**

ADDITIONAL CHARGES (Estimated)

	HIGH SCHOOL	ADULT
Tools/Books	**$0**	**$0**

2026-2027 PROGRAM COSTS - CERT C (Estimated)

	HIGH SCHOOL	ADULT
Tuition	$855	$8,721
All other fees	$235	$1,477
TOTAL	**$1,090**	**$10,198**

ADDITIONAL CHARGES (Estimated)

	HIGH SCHOOL	ADULT
Tools/Books	**$0**	**$0**

The Washburn Tech Industrial Machine/ Maintenance Technology program is in alignment with the National Center for Education Statistics (NCES) CIP Code 47.0303: Industrial Mechanics and Maintenance Technology. A program that prepares individuals to apply technical knowledge and skills to repair and maintain industrial machinery and equipment such as cranes, pumps, engines and motors, pneumatic tools, conveyor systems, production machinery, marine deck machinery, and steam propulsion, refinery, and pipeline-distribution systems.

MORE INFO »

For more programs, enrollment and course schedule information, please contact Admissions. Financial Aid is available to those who qualify.

CALL 785.670.2200

TO TALK W/ ADMISSIONS COUNSELOR

Washburn University prohibits discrimination on the basis of race, color, sex, religion, age, national origin, ancestry, disability, marital or parental status, sexual orientation/gender identity, genetic information or other non-merit reasons in University programs and activities, admissions, educational program, or activities and employment, as required by applicable laws and regulations. The following person has been designated to handle inquiries regarding non-discrimination policies: Equal Opportunity Director, Washburn University, 1700 S.W. College Ave., Topeka, KS 66621, 785.670.1509, eodirector@washburn.edu.