



HIGH WAGE + HIGH DEMAND

# Industrial Machine/ Maintenance Technology

**WASHBURN**TECH  
UNIVERSITY

[MANUFACTURING]

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 aggressively hiring people with industrial maintenance skills. According to the Kansas Department of Labor,

an entry-level industrial machinery mechanic earned an average of \$23.90 an hour or \$49,717 annually in 2024, while the average wage was \$34.20 an hour or \$71,136 annually and the experienced wage was \$39.35 an hour or \$81,845 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
- + foundry equip. mechanic
- + crane oiler
- + hydroelectric mechanic
- + millwright
- + bag machine adjuster
- + boilerhouse
- + product line mechanic

# Industrial Machine/Maintenance Technology

## 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

### 2025-2026 PROGRAM COSTS - CERT A (Estimated)

	HIGH SCHOOL	ADULT
Tuition	\$825	\$4,455
All other fees	\$235	\$1,003
<b>TOTAL</b>	<b>\$1,060</b>	<b>\$5,322</b>

### ADDITIONAL CHARGES (Estimated)

	HIGH SCHOOL	ADULT
Tools/Books	\$84	\$84

### 2025-2026 PROGRAM COSTS - CERT C (Estimated)

	HIGH SCHOOL	ADULT
Tuition	\$825	\$8,415
All other fees	\$285	\$1,791
<b>TOTAL</b>	<b>\$1,010</b>	<b>\$10,206</b>

### ADDITIONAL CHARGES (Estimated)

	HIGH SCHOOL	ADULT
Tools/Books	\$84	\$84

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**