

AUTOMATION TECHNOLOGY MACHINE MAINTENANCE & REPAIR

This program prepares students for careers as an industrial system maintenance technician. Students learn occupational areas of industrial safety, direct and alternating current principles, and industrial wiring. Prepares students for employment using basic electrical maintenance skills. Regardless of where the student gains employment, this program serves as a pre-apprenticeship program where they can continue on-the-job training until fully qualified as a journeyman.

PROGRAMS BEGIN

February
June
October

TECHNICAL COLLEGE CERTIFICATES

Industrial Electrician
Residential/Industrial Wiring Technician

DID YOU KNOW?¹

The Industrial Maintenance Mechanic industry is projected to grow **14%** by 2031

IMPORTANT QUALITIES¹

- Manual dexterity
- Hand-eye Coordination
- Mechanical Skills
- Critical Thinking Skills
- Physical Stamina
- Physical Strength
- Attention to Detail
- Analytical Skills

COURSES

- IDSY 1101 DC Circuits
- IDSY 1105 AC Circuits
- IDSY 1112 Motor Controls 1
- IDSY 1111 Industrial Wiring
- IDSY 1171 Industrial Mechanics
- IDSY 1181 Fluid Power Systems

MEDIAN SALARY¹

\$59,380

NUMBER OF JOBS AVAILABLE¹

483,200

TYPICAL RESPONSIBILITIES¹

- Read technical manuals to understand equipment and controls
- Disassemble machinery and equipment when there is a problem
- Repair or replace broken or malfunctioning components
- Perform tests and run initial batches to make sure that the machine is running smoothly
- Detect minor problems by performing basic diagnostic tests
- Test malfunctioning machinery to determine whether major repairs are needed
- Adjust and calibrate equipment and machinery to optimal specifications
- Clean and lubricate equipment or machinery
- Move machinery and equipment

¹ **Industrial Machinery Mechanics, Machinery Maintenance Worker, or Millwright: Occupational Outlook Handbook: U.S. Bureau of Labor Statistics**
<https://www.bls.gov/ooh/installation-maintenance-and-repair/industrial-machinery-mechanics-and-maintenance-workers-and-millwrights.htm#tab-1>