



CAREER PATHWAY MAINTENANCE, INSTALLATION & REPAIR

Dual or Tech/Career Seal

People with careers in Maintenance, Installation and Repair perform preventive maintenance procedures on machines, tools and equipment. These are performed routinely and on a regular basis. They also troubleshoot and repair electrical, electronic and mechanical systems.

Major Courses

Students must take **THREE** pathway concentration courses and **ONE** additional pathway elective course.

Pathway Concentration Courses (3):

- Arc Welding I
- Electrical Systems I
- Intro to Manufacturing/Engineering Sciences
- Introduction to Precision Machining
- Mechanical/Electrical Systems I

Pathway Elective Course (1):

- Apprenticeship/Internship
- Drafting Technology: Introduction
- Engineering Concepts (Pre-Engineering Technology)
- Other Pathway Concentration Course

Other Recommended Courses

- Algebra I
- Informal Geometry
- Integrating Systems
- Physical Science
- Pre-Algebra

Post-Secondary Degrees, Diplomas, & Certificates

Technical Colleges

- Electrical Control Systems
- Industrial Mechanical Technician
- Industrial Motor Control
- Machine Tool Tech
- Welding & Joining Tech

Colleges/Universities

- Applied Science in Technology
- Design Engineering
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering



Computer Installer/Repairer
Facility Electrician
Instrument Control Technician
Job/Fixture Designer
Laser Systems Technician
Maintenance Repairer
CNC Programmer

Computer Maintenance Technician
Industrial Facilities Manager
Industrial Maintenance Electrician
Industrial Maintenance Mechanic
Instrument Calibration and Repairer
Security System Installer/Repairer
CNC Specialist/CNC Operator

Electrical Equipment Installer/Repairer
Industrial Machinery Mechanic
Industrial Electronic Installer/Repairer
Industrial Maintenance Technician
Plumber, Pipe Fitter and Steam Fitter
Biomedical Equipment Technician
Machinist/Welder

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EMPLOYMENT OUTLOOK

In this pathway, maintenance technicians and repair positions will experience average growth for jobs across all sectors. In addition, job opportunities will be plentiful because of a shortage of qualified applicants. This will, in part, be due to the increasing complexity of equipment. The best job prospects will be for those with broad skill sets.