

## Focusing Education on the Future!



# CAREER PATHWAY MAINTENANCE / OPERATIONS

Dual or Tech/Career Seal

People with careers in Maintenance/Operations keep our future intact! These are the people who unload, inspect, and move new equipment into position. They determine the optimal placement of machines in a plant, assemble machinery, install machinery, repair machinery and perform preventive maintenance.

### Major Courses

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

#### Pathway Concentration Courses (3):

- Electrical I
- Introduction to Construction (formerly Introduction to Building)
- Occupational Safety & Fundamentals (Required) (formerly Fundamentals of Construction)
- Plumbing I

#### Pathway Elective Courses (1):

- Apprenticeship/Internship
- Arc Welding Process I
- Carpentry I
- Introduction to Manufacturing/Eng Science
- Other Pathway Concentration Course

### Other Recommended Courses

- Informal Geometry
- Physical Science
- Mechanical/Electrical Systems
- Visual Arts

### Post-Secondary Degrees, Diplomas, & Certificates

#### Technical Colleges

- Electrical Control Systems
- Masonry
- Mechanical Controls System
- Mechanical Inspector
- Mechanical Technology Maintenance

#### Colleges/Universities

- Electrical Construction Maintenance
- Engineering Technology



General Maintenance Contractor  
Project Manager  
Facilities Engineer  
Electrician  
Concrete Finisher  
Field Supervisor

Specialty Contractor  
Superintendent  
Project Inspector  
Carpet Installer  
Elevator Installer  
Safety Director

Construction Engineer  
Construction Foreman  
Demolition Engineer  
Plumber  
Sheet Metal Worker  
Service Contractor

Construction Manager  
Estimator  
Mason  
Insulation Worker  
Security Installer  
Operation Engineer

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## EMPLOYMENT OUTLOOK

Maintenance/Operations employees hold about three million jobs. Applicants with broad skills should have favorable job prospects through the year 2010. As automation of machinery becomes more widespread, there is a greater need for repair work than for the installation of new machinery.