

## Facility Maintenance

### 23-24 unit certificate • 60 unit degree

Students will gain skills in: safety standards, technical math, blueprint reading, troubleshooting, preventative maintenance, drive components, lubrication, bearings, wiring methods, hydraulics, pneumatics, basic electricity, technical communication and more.

## Required Courses (to earn certificate)

#### MAN-55 OSHA Standards for General Industry (1 unit)

This course covers OSHA policies, procedures, and standards, as well as safety for general industry and health principles.

#### ELE/MAN-68: Fundamentals of Maintenance (3 units)

Foundational skills training for maintenance technicians. Introduction to the basic maintenance and repair methods used in the facility maintenance profession.

#### ELE/MAN-69: Fundamentals of Tooling and Test Equipment (2 units)

An introduction to the tools and equipment used in the facility maintenance occupation, with an emphasis on the safe use, maintenance, and storage of a variety of tools and equipment.

#### ELE/ENE-27 Technical Communications (3 units)\*

Procedures for organizing and presenting data through informal and formal documents and presentations. Includes practice in writing memoranda, letter reports, and informal technical reports.

#### ENE-51 Blueprint Reading (2 units)\*

A beginning course in the study of blueprints and their interpretation, types of projection, symbols and abbreviations.

#### ELE/MAN-77 Electrical Theory (3 units)

This course introduces students to electrical theory, Ohm's Law, magnetism, voltage inductance, capacitance, units of electric measurement, and proper usage of electrical test equipment (meters).

#### MAN-60 Hydraulic and Pneumatic Systems (3 units)

Advisory: ENE-60 or MAT 52.

Basics of hydraulic and pneumatic systems including physical properties of liquids under pressure.

#### ELE/CON-66 National Electrical Code (3 units)

Review of electrical codes including discussion and analysis of the application of physical laws in development of the code requirements.

#### ENE-60 Math for Engineering Technology (3 units)

A course in mathematical problems frequently used by students enrolled in the trade and industrial and engineering programs. This course reviews basic arithmetic, linear measurement, basic algebra, basic plane geometry, trigonometry, and compound angles.

OR

#### MAT-36 Trigonometry (4 units)

A course in mathematical problems frequently used by students enrolled in the trade, industrial and engineering programs.

\*This class transfers toward one or more CSUSB or CalPoly majors. Visit [www.assist.org](http://www.assist.org) or the Counseling office for details.

## Facility Maintenance

Tuition \$46/unit • Duration of Study: 18 months

An Associate of Science Degree in Facility Maintenance will be awarded upon completion of the required courses (23-24 units) plus the General Education requirements. Please refer to the Norco College Catalog or visit the Counseling Center.

### Job & Wage Information

- **Maintenance & Repair Technician**  
Wage Range\*: \$16.81-28.23  
9% increase expected in CA 2019-2029; 15,660 openings annually  
More information: <http://bit.ly/MaintTechNC>
- **Machine Repairer**  
Wage Range\*: \$19.68-31.31  
7% increase expected in CA 2019-2029; 740 openings annually  
More information: <http://bit.ly/MachMaintNC>
- **Community Association Manager**  
Wage Range\*: \$25.20-39.41  
8% increase expected in CA 2019-2029; 5,770 openings annually  
More information: <http://bit.ly/PropertyMgmtNC>
- **Grounds Maintenance Workers**  
Wage Range\*: \$17.51-\$24.33  
11% increase expected in CA 2019-2029; 390 openings annually  
More information: <http://bit.ly/GroundsMaintNC>

\*2020, Riverside/Ontario/San Bernardino Metro Area

### What type of interests might be a good fit for this career choice?



## Realistic

People who have athletic or mechanical ability and prefer to work with objects, machines and tools. Preference for working with things over people.

For more information on careers that fit this category of interests, visit the Career Center in the Center for Student Success.

### What's Your School?



Visit [www.norcollege.edu/STEM](http://www.norcollege.edu/STEM) for more information about this program.