

# INDUSTRIAL MECHANICAL MAINTENANCE

## Industrial Mechanical Maintenance Certificate

This certificate is designed for persons who want to prepare for initial or improved employment in the industry mechanical area. The curriculum provides for a student to learn the basic principles and skills which are necessary to industrial maintenance, such as drafting/blueprint reading, electricity, hydraulics and pneumatics, machine tool, mathematics, and fundamentals of welding.

### ADMISSION TO THE PROGRAM: OPEN

#### FIRST-TIME ENROLLEES

1. Complete an application for admission and, if desired, apply for financial aid.
2. Send an official high school transcript or GED score report to the Admissions and Records Office.
3. Complete the placement exam.
4. Meet with an advisor/counselor to select classes and complete the registration process.

#### DEPARTMENT OF CAREER & TECHNICAL EDUCATION

2400 Tom L. Wilson Blvd.  
Galesburg, IL 61401  
309.341.3501

#### FOR ADDITIONAL INFORMATION CONTACT:

The Welcome Center  
Phone:309.345.3500  
welcomecenter@sandburg.edu

#### FOR GRADUATION REQUIREMENTS:

See the graduation policies and procedures page for details.

## Industrial Mechanical Maintenance Certificate

Course	Title	Semester Hours
<b>First Year</b>		
<b>Fall Semester</b>		
ELT.100	Electrical Fundamentals	3
MAT.101	Technical Mathematics 1	3
MFG.100	Introduction to Welding	3
MFG.130	Industrial Safety	2
MTL.101	Machine Tool Fundamentals 1	3
MTL.103	Manufacturing Processes	2
<b>Spring Semester</b>		
BOC.107	Tech Skills for Business Environment	3
DRF.100	Basic Drafting	2
MFG.125	Industrial Blueprints	3
HYD.101	Hydraulics and Pneumatics	3
MAT.102	Technical Mathematics 2	3
Total Semester Hours		30

Note: Students enrolled in the Industrial Mechanical Maintenance Certificate must complete ELT, MTL, and WEL courses with a grade of C or better. In order to graduate, students must complete all ELT, MTL and WEL courses with a grade of C or better.

(Students who do not expect to complete their degree within five years should refer to the Graduation Requirements section in this catalog.)

#### Ellen Burns

Dean of Career and Technical Education

The Center for Manufacturing Excellence (CME) offers classroom space, a computer lab, and houses Carl Sandburg College's industrial programs. The electrical lab features a host of components to aid in student learning including AC/DC trainers. Instruction is delivered by individuals with industry-specific expertise and includes specialized coursework using technical equipment. The College's weld lab offers 26 bay stations. The welding area offers two welding simulators, as well as state of the art multi process welding machines. The CNC Program offers training in programming, setup, and operations while housing multiple lathe, mills, and CNC Machines as well as simulators to properly train students for a career in the machining industry.