

MECHANICAL MAINTENANCE

About the Mechanical Maintenance Program

Introduces students and builds basic skills to install, maintain, and operate hydraulic, pneumatic, mechanical, and electronic automated equipment used in manufacturing industries. Students will be introduced to diagnostics and repair of equipment components. Upon completion of the certificate, students will be eligible for entry level positions in manufacturing as production workers or maintenance technicians.

PROGRAM OUTLINE

TERM: 1		
Course #	Course Title	Credits
1010311500	MS Word Beginning Provides practice in using basic word processing functions and features of MS Word.	1.00
1010312600	MS Excel Beginning Develops skills in using basic spreadsheet functions of MS Excel for business users.	1.00
1044910000	Industrial Safety Fundamentals Introduces general safety for a manufacturing environment while raising the awareness of the worker to the hazards around them, and how to best protect themselves while working safely. Students will earn an OSHA 30 card and confined space certificate upon completion.	2.00
1046210300	Hydraulic Components and Schematics Students will learn how to operate the Basic Hydraulic Trainer and draw the schematic symbols in a circuit.	1.00
1046210500	Fixed Displacement Pumps Students will learn about Pascal's law and the relationship between pressure, force and area.	1.00
1046210700	Hydraulic Pressure Valves Students will identify different hydraulic valves and use them in an application.	1.00
1046210900	Analyze Basic Pneumatic Trainer Students will learn how to operate the Basic Pneumatic Trainer.	1.00
1046211200	Analyze Pressure Regulator and Actuator Students will understand how air compression will affect an actuator.	1.00
1046211500	Basic Electrical Circuits Students will learn how to measure voltage, current and resistance in an electrical circuit.	1.00
1046211700	Inductance and Capacitance Students will learn how to define and calculate inductance and capacitance in an electrical circuit.	1.00
1046211900	Analyze Transformers Students will learn how to size a transformer and how to identify the step up and step down transformers.	1.00

Course #	Course Title	Credits
1080119500	<p>Written Communication</p> <p>Develops writing skills which include prewriting, drafting, revising, and editing. A variety of writing assignments is designed to help the learner analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Also develops critical reading and thinking skills through the analysis of a variety of written documents.</p>	3.00

Total Credits: 15.00

Talk with an Academic Advisor about the program outline. Together, you will determine if credits you've already earned satisfy any requirements, discuss possible alternative courses, and choose the best classes if you're thinking of transferring.

AT A GLANCE

How You'll Learn



ON CAMPUS ONLINE CLASSES MULTIPLE START DATES FLEXIBLE PACE

2021 Start Dates

January 6	May 7	September 1
February 1	June 7	October 4
March 1	July 5	November 1

2022 Start Dates

January 5	March 1	June 6
February 7	May 2	July 11

[VIEW FULL ACADEMIC CALENDAR](#)

Approximate Cost

\$2,431*

*Based on 10-level courses—materials, books, and fees may be additional

What You'll Learn

- Practice industry recognized safety practices and guidelines, including the use of personal protective equipment in an industrial operating environment.
- Prepare and maintain documentation of work orders, repair work completed, and safety procedures implemented.
- Install, maintain, troubleshoot and repair industrial machinery and manufacturing equipment, using appropriate tools, materials, and methods.

Your Potential Careers

- Machinery Maintenance Worker
- Machinery Repair

Median Annual Salary

\$40,667	\$41,476	\$38,698
Local	State	National

EMSI 2020.1

Get Started

Your application can be submitted online, it takes just a few minutes to complete.

[APPLY NOW](#)