

## 2021-22 ACADEMIC PROGRAMS

### FLUID POWER (CTFPOW)

#### Certificate

The Fluid Power certificate program prepares students for entry level positions as a hydraulic technician. The program gives students an understanding of hydraulic and pneumatic system design including motion control, using electro-hydraulic proportional and servo valves. Students who complete the program may choose to take the Hydraulic Specialist or Technician Certification Examination through the Fluid Power Society.

This is a **high skill** and **high wage** program as defined by the [Michigan Community College Network](#).

Do you have another career in mind? [Search for careers](#)

#### Description

This program prepares students for entry level positions as a hydraulic technician. The program gives students an understanding of hydraulic and pneumatic system design including motion control, using electro-hydraulic proportional and servo valves. Students who complete the program may choose to take the Hydraulic Specialist or Technician Certification Examination through the Fluid Power Society.

#### Articulation

Eastern Michigan University, BS degree.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <https://www.wccnet.edu/learn/transfer-wcc-credits/articulation-agreements.php>.

#### Course Requirements

##### Major/Area Requirements

Class	Title	Minimum Credits
FLP 110	Fluid Power Fundamentals - II	2
FLP 214	Hydraulic Circuits and Controls	4
FLP 225	Fluid Power Motion Control	3
FLP 226	Pneumatics	3
Total		12

##### Core Courses

Class	Title	Minimum Credits
MEC 100	Materials and Processes	3
FLP 101	Fluid Power Fundamentals - I	2
MTT 102	Machining for the Technologies	2
NCT 101	Introduction to Computerized Machining (CNC) - I	2
ROB 101	Robotics I - I	2
Total		11

**Total Credits Required: 23**

#### Footnotes

This certificate can also lead to an associate degree in Mechatronics.

Accurate as of 05/18/2021 Information is subject to change without notice.