

## Fluid Power Engineering Technician (BP/EP) Diploma

### Semester Sequence - Eden Prairie

#### First Semester

FLPW1101	Fluid Power Technology I	3
FLPW1106	Fluid Power Technology II	4
FLPW1181	Pumps, Actuators, and Conductors	4
FLPW1191	Hydraulic Components	3
FLPW1320	Hydraulic Circuits	2
	General Education Electives	3

#### Total Credits 19

#### Second Semester

FLPW1150	Pneumatic Components (elective)	4
FLPW1236	Industrial Electricity II (elective)	3
FLPW1231	Industrial Electricity I	3
FLPW1340	Pneumatic Circuits and Air Logic	4
METS1000	Computers in Manufacturing	3

#### Total Credits 14

#### Third Semester

FLPW2000	Programmable Logic Controllers	3
FLPW2112	Instrumentation of Fluid Power Systems	3
FLPW2250	Proportional and Servo Controls (Robotics Application)	3
METS2000	Engineering Design Principles	3
METS2100	Statics and Strength of Materials	3
	Choose one of the following:	
ENGC1100	AutoCAD	4
ENGC1160	Inventor	4
ENGC1250	SOLIDWORKS I	4
ENGC2100	Basic Creo Parametric	4
FLPW1400	Engineering Drawings and Schematics	4

#### Total Credits 19

#### Fourth Semester

FLPW2180	Circuit Design	3
FLPW2191	Industrial Circuit Design	3
FLPW2301	Mobile Circuit Design	3
FLPW2321	System Engineering Portfolio	3
	Optional:	
FLPW2350	Hydraulic Specialist Certification Review	2
	or	
FLPW2360	Pneumatic Specialist Certification Review	2

#### Total Credits 14

**Technical Studies Electives**

Recommended:

FLPW1150	Pneumatic Components	4
FLPW1236	Industrial Electricity II	3
FLPW1500	Fluid Power Process Lab	1 - 4
FLPW2020	Advanced Programmable Logic Controllers	3
FLPW2350	Hydraulic Specialist Certification Review	2
FLPW2360	Pneumatic Specialist Certification Review	2

**Choose a Total of: 6 Credits**

**General Education Electives**

If a General Education course is required it may not be used as a General Education Elective.

Minnesota Transfer Curriculum (MnTC) may also be used to meet General Education Elective requirements. A complete list of MnTC courses can be found at [www.hennepintech.edu](http://www.hennepintech.edu).

CCDS1000	College Success Seminar	1
CCDS1020	Interviewing Skills	1
CCDS1040	Job Seeking Skills	2
CCDS1100	Student Success	3
COMM1050	Communication in the Workplace	2
CPLT1000	Computer Keyboarding	2
CPLT1005	Advanced Keyboarding and Document Processing	3
CPLT1100	Computer Essentials	3
CPLT1200	Introduction to Macintosh	3
EMSV1020	CPR/First Aid	1
ENGL1010	Business English	3
ENGL1021	Essay Fundamentals	3
ENGL1026	Writing for Careers	3
MATH1007	Math for the Trades	2
MATH1020	Geometry and Trigonometry	2
MATH1050	Math Pathways Plus for College and Careers	4
MATH1060	Math Pathways for College and Careers	3
MATH1500	Beginning Algebra	3
MATH1650	Mathematical Literacy	4
MATH1700	Intermediate Algebra	3
METS1000	Computers in Manufacturing	3
PHYS1000	Fundamentals of Physics	2

**Choose a Total of: 3 Credits**

**Graduation (66 Credits)**

Semester listings reflect the recommended sequence. Due to circumstances beyond our control, the information herein is subject to change without notice.

4/19/2021: BP 4706 / EP 4707