

SKILLS LIST

Locate the Mechatronics Course in which you're interested, review the skills recommended, call Brian Hannon for additional information: 412.788.7357, or email: bhannon@ccac.edu

Electrical Circuits 1 & 2 (previously called Control Circuits 1&2)

There is no previous skills or knowledge needed, although some very basic algebra would be an advantage.

Motor Control 1 & 2

Participants must have a basic knowledge of electrical circuitry for both AC and DC circuits.

Electrical Wiring

Participants must have a basic knowledge of Ladder Diagrams, circuit logic, wiring and operation of relays, AC motors and various switches.

Power Distribution

Participants must have a basic knowledge of wiring, motor starters and relays.

Hydraulics 1 & 2

No previous skills needed, although some algebra is a definite plus

Pneumatics 1 and Pneumatics Maintenance

No previous skills needed, although some algebra is a definite plus

Piping Systems

No previous skills needed

Electro Fluid Power

Thorough understanding of motor control and relays, ladder diagrams and wiring logic, and some knowledge of hydraulic and pneumatic components, circuits and symbology.

Hydraulic Troubleshooting

Thorough understanding of hydraulics, hydraulic circuits and symbology.

Mechanical Drives

No previous skills needed, some basic math an advantage.

Programmable Logic Controllers

Participants should have a basic knowledge of electrical circuitry.