![City Colleges of Chicago]

FACTORY AUTOMATION, BASIC CERTIFICATE

College(s): DA

Program Code: 0726

Factory Automation technicians operate, maintain, repair, and install automated production equipment used through manufacturing. Modern production requires digital, programmable skills such as robotic programming, sensor technology, and the use of Programmable Logic Controllers. This certificate provides foundational mechanical and electrical skills for entry-level jobs in maintenance, repair and installation of manufacturing production equipment. Program completers will be employable as a maintenance mechanic trainees or helpers, and building maintenance trainees. Students will also have the opportunity to earn the Manufacturing Skill Standards Council's (MSSC) credential in Maintenance Awareness.

Program Requirements

Code	Title	Hours
Required Program Core		
340MFGT 151	Introduction to Welding	3
340MFGT 191	Industrial Electricity	4
340MFGT 253	Pneumatics	3
340MFGT 255	Industrial Hydraulics	3
340MFGT 291	Programmable Logic Controllers	3
340MFGT 292	Principles of Mechanisms	3
340MFGT 295	Electrical Motor Controls	3
Total Hours		22

Pathway

This is an **example course sequence** for students interested in Factory Automation. It does not represent a contract, nor does it guarantee course availability.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Course	Title	Hours
Semester 1		
340MFGT 151	Introduction to Welding	3
340MFGT 253	Pneumatics	3
340MFGT 255	Industrial Hydraulics	3
	Hours	9
Semester 2		
340MFGT 292	Principles of Mechanisms	3
340MFGT 191	Industrial Electricity	4
	Hours	7
Semester 3		
340MFGT 295	Electrical Motor Controls	3
340MFGT 291	Programmable Logic Controllers	3
	Hours	6
	Total Hours	22

Choose your courses with your College Advisor.