INDUSTRIAL SUPERVISION ENGINEERING TECHNOLOGY, ADVANCED CERTIFICATE

College(s): DA

Program Code: 0454

Supervisors are the manufacturing company leaders that organize the production operations to achieve production goals, improvements and targets. Students in this program will gain an understanding of production process, robotics, and quality assurance process to be able to be knowledgeable of the operations they may be responsible for leading. Students take courses in production processes with hands on labs as well as in management, human resources, project management and supervision to be knowledgeable of the many facets involved with leading a production team.

Program Requirements

Code	Title	Hours
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153 or 340MFGT 195	Welding I GMAW Manual Machining II	3
BUSINES 111	Introduction To Business	3
BUSINES 269	Principles Of Management	3
BUSINES 271	Human Resources Management	3
Total Hours		**30**

Pathway

This is an **example course sequence** for students interested in pursuing Industrial Supervision Engineering Technology. This does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn Basic Certificates (BC) in Manufacturing Technology and CNC Technology and an Advanced Certificate (AC) in Industrial Supervision Engineering Technology.

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.

Semester 1		**Hours**
340MFGT 105	Introduction to Advanced Manufacturing I	3
340MFGT 106	Introduction to Advanced Manufacturing II	3
340MFGT 107	Introduction to Advanced Manufacturing III	3
340MFGT 108	Robotics I	3
BUSINES 111	Introduction To Business	3
	Hours	**15**
Semester 2		
340MFGT 109	Introduction to Manual Machining	3
340MFGT 110	CNC I Operations	3
340MFGT 153 or 340MFGT 195	Welding I GMAW or Manual Machining II	3
BUSINES 269	Principles Of Management	3
BUSINES 271	Human Resources Management	3
	Hours	**15**
	Total Hours	**30**

Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional

guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (https://www.ccc.edu/departments/Pages/Career-Services.aspx).

First-Line Supervisors of Production and Operating Workers

Job Description

Directly supervise and coordinate the activities of production and operating workers, such as inspectors, precision workers, machine setters and operators, assemblers, fabricators, and plant and system operators. Excludes team or work leaders.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10th Percentile	$41,089
Median 50th Percentile	$63,652
Senior-Level 90th Percentile	$99,890

Hourly Wages

Entry-Level 10th Percentile	$20
Median 50th Percentile	$31
Senior-Level 90th Percentile	$48

Annual Job Openings

1024 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	47.00%
A certificate	11.60%
Some college	14.96%
An Associate degree	13.62%
A Bachelor's degree	11.96%
A Master's or Professional degree	0.86%
A Doctoral degree or more	0.00%

12.82% continue their education beyond an associate degree

First-Line Supervisors of Mechanics, Installers, and Repairers

Job Description

Directly supervise and coordinate the activities of mechanics, installers, and repairers. May also advise customers on recommended services. Excludes team or work leaders.

Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages

Entry-Level 10th Percentile	$48,999
Median 50th Percentile	$81,814
Senior-Level 90th Percentile	$124,955

Hourly Wages

Entry-Level 10th Percentile	$24
Median 50th Percentile	$39
Senior-Level 90th Percentile	$60

Annual Job Openings

583 annual openings in Cook County

National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	57.20%
A certificate	13.08%
Some college	16.91%
An Associate degree	3.20%
A Bachelor's degree	7.57%
A Master's or Professional degree	0.00%
A Doctoral degree or more	2.05%

9.62% continue their education beyond an associate degree