Industrial Maintenance Certificate

Industrial maintenance mechanics are employed in the die-casting, plastics, food processing, printing, precision metal and woodworking industries. The vocational certificate course work includes a broad curriculum of industrial electricity, welding, HVAC and blueprint reading. Emphasis will be hands-on training in the repairing and testing of equipment. This also allows students employed in an industrial maintenance position to broaden their skill areas and achieve a vocational certificate.

Note: MFAB 120 - MFAB Tools and Equipment or MFAB 127-Welding Processes are prerequisites/corequisites to MFAB 121. Students who may have the skills needed for MFAB 120 or MFAB 127 may contact the career program facilitator for a waiver or may contact the Testing Center for prior learning credit.

Suggested/Sample Course Sequence

The sequence taken by the student may vary depending on prerequisites, course availability, and personal/ professional responsibilities.

(Major Code 5210; State CIP Code 47.0303)

- · Gainful Employment Industrial Maintenance (http://www.jccc.edu/electrical-tech/ge-industrial-maintenance/gedt.html)
- Electrical Technology (http://www.jccc.edu/electrical-tech)

First Semester

DRAF 129	Interpreting Architectural Drawings	2
or MFAB 180	Blueprint and Symbols Reading for Welders	
or HVAC 143		
ELTE 123	Electromechanical Systems	4
INDT 125	Industrial Safety/OSHA 30	3
MFAB 124	Introduction to Welding	3
Total Hours		12
Second Semeste	er	
Technical Electives (see lis	st below)	12
Total Hours		12
Technical Electiv	ves .	
ELEC 120	Introduction to Electronics	3
ELEC 133	Programmable Controllers	3
ELEC 165	Advanced Programmable Controllers*	3
ELTE 122	National Electrical Code I	4
ELTE 200	Commercial Wiring Methods*	4
ELTE 205	Industrial Electrical Wiring*	4
HVAC 121		4
CET 105	Construction Methods	3
MFAB 140	Maintenance Repair Welding*	3
MFAB 128	Basic Machine Tool Technology	3
MFAB 240	Metallurgy	2
INDT 155	Workplace Skills	1

Total Program Hours: 24

Courses

INDT 125 Industrial Safety/OSHA 30 (3 Hours)

This course introduces the student to basic safety policies, procedures, and regulations. The student should be able to list various safety, health, and environmental topics, and recognize the need for an ongoing safety program. Upon successful completion of this course, including attendance and grade requirements, the students may be eligible for the OSHA General Industry Health and Safety Training card. 3 hr. lecture/wk.

Industrial Maintenance Certificate

INDT 155 Workplace Skills (1 Hour)

2

Upon successful completion of this course, the student should be able to identify the job skills necessary to have a successful career in the field of his or her choosing. Topics include listening skills, oral communication, human relations, decision making/problem solving, how to work as a team, time and resource management, work ethics and career planning. 1 hr. lecture/wk.