

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-vc-indusmain.html>)
- Electrical Technology (<http://www.jccc.edu/electrical-tech>)

First Semester

DRAF 129 or MFAB 180 or HVAC 143	Interpreting Architectural Drawings Blueprint and Symbols Reading for Welders Reading Blueprints and Ladder Diagrams	2
ELTE 123	Electromechanical Systems	4
INDT 125	Industrial Safety/OSHA 30	3
MFAB 124	Introduction to Welding	3
Total Hours		12

Second Semester

Technical Electives (see list below)		12
Total Hours		12

Technical Electives

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	Basic Principles of HVAC*	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