



INDUSTRIAL MANUFACTURING TECHNOLOGY (15.0613)

DIVISION: Technical Studies

DEPARTMENT: Manufacturing

DIPLOMA/CERTIFICATE OPTIONS

CTS – CERTIFICATION FOR MANUFACTURING (C4M)
 CTS – INDUSTRIAL ELECTRONICS TECHNICIAN
 CTS – MILLWRIGHT APPRENTICE
 CTS – CNC OPERATOR
 TD – INDUSTRIAL MANUFACTURING TECHNOLOGY

TD CONCENTRATIONS:

ELECTRICAL & INSTRUMENTATION (E&I)
 MILLWRIGHT
 MACHINE TOOL TECHNOLOGY

SPECIAL COMMENTS: This diploma consists of a core set of courses and 3 concentration areas from which the student can choose to complete the diploma credential.

Optional prep course is CPTR 1002 (Computer Literacy & Applications)

CURRICULUM

Course No.	Course Title	Lecture	Lab	Total Credit Hrs.	Total Clock Hrs.
CORE COURSES:					
ORNT 1000	Freshman Seminar	1	0	1	15
IMFG 1100	Introduction to Manufacturing	3	0	3	45
IMFG 1120	Tools and Equipment Used in Manufacturing	1	3	4	135
IMFG 1200	Automation	1	3	4	120
IMFG 1300	Introduction to Fabrication, Process Technology, & Machining	1	3	4	135
	CTS – Certification for Manufacturing (C4M)			16	450
INDUSTRIAL ELECTRICAL & INSTRUMENTATION CONCENTRATION: (Core + the following)					
IIET 1433	Wiring/Electrical Blueprint Interpretation	2	1	3	90
IMFG 1150	Fluid Power I	0	3	3	90
IMFG 1210	DC/AC Electronics	1	2	3	90
IMFG 1220	Digital Electronics	1	2	3	105
	CTS – INDUSTRIAL ELECTRONICS TECHNICIAN			28	825
IIET 2123	Understanding Programmable Controllers	1	2	3	90
IMFG 1235	Motor Controls	0	3	3	105
IMFG 1260	Introduction to Industrial Networking	1	2	3	90
IMFG 2100	Process Measurements	1	2	3	90
IMFG 2200	Industrial Control Components and Equipment	1	2	3	105
JOBS 2500	Critical Skills in the Workplace	2	0	2	30
	TD –INDUSTRIAL MANUFACTURING - (ELECTRICAL & INSTRUMENTATION CONCENTRATION)			45	1350

MILLWRIGHT CONCENTRATION: (Core + the following)					
IMFG 1320	Millwright I	3	0	3	45
IMFG 1321	Millwright I Lab	0	2	2	90
IMFG 1420	Millwright II	2	0	2	60
IMFG 1421	Millwright II Lab	0	3	3	105
IMFG 1130	Pneumatics Applications	0	2	2	90
	CTS – MILLWRIGHT APPRENTICE			28	840
IMFG 1325	Pipefitting	0	2	2	60
IMFG 1140	Hydraulics Applications	0	3	3	90
IMFG 1210	Material Handling	1	1	2	60
IMFG 1315	Welding	0	2	2	90
	Elective or Co-op	0	3	3	90
	Elective or Co-op	0	3	3	90
JOBS 2450	Job Seeking Skills	2	0	2	30
JOBS 2500	Critical Skills in the Workplace			45	1350
MACHINE TOOL TECHNOLOGY CONCENTRATION: (Core + the following)					
IMFG 1110	Shop Mathematics	2	1	3	75
IMFG 1310	Machine Shop I	3	3	6	150
IMFG 1340	Basic Lathe	0	3	3	135
IMFG 1440	Basic Mill	0	3	3	135
	CTS-CNC OPERATOR			31	945
IMFG 1410	Machine Shop II	3	3	6	150
IMFG 2710	CNC	1	2	3	135
	Elective or Co-op	0	3	3	90
JOBS 2500	Critical Skills in the Workplace	2	0	2	30
	TD – INDUSTRIAL MANUFACTURING – (MACHINE TOOL TECHNOLOGY CONCENTRATION)			45	1350