



## 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

AAS – TECHNICAL STUDIES (INDUSTRIAL MANUFACTURING CONCENTRATION)

### 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.
	<b>CORE COURSES:</b>				
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
<b>INDUSTRIAL ELECTRICAL &amp; INSTRUMENTATION CONCENTRATION: (Core + the following)</b>					
IIET 1433	Wiring/Electrical Blueprint Interpretation	2	1	3	90
IMFG 1150	Fluid Power I	0	3	3	90
IMFG 1215	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

	<b>TD –INDUSTRIAL MANUFACTURING - (ELECTRICAL &amp; INSTRUMENTATION CONCENTRATION)</b>			<b>45</b>	<b>1350</b>
<b>ENGL 1010</b>	<b>English Composition I</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>45</b>
<b>MATH XXXX</b>	<b>College Algebra OR Contemporary Math</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>45</b>
	<b>Social Science Elective</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>45</b>
	<b>Natural Science Elective</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>45</b>
	<b>Humanities Elective</b>	<b>3</b>	<b>0</b>	<b>3</b>	<b>45</b>
<b>AAS – TECHNICAL STUDIES (INDUSTRIAL MANUFACTURING CONCENTRATION)</b>				<b>60</b>	<b>1575</b>