

OCCUPATIONAL CERTIFICATE (CERT) AWC ADVISEMENT CHECK SHEET

MANUFACTURING

Student Name	ID #	Advisor	Major Code: CERT.MFG Credits: 41-43
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This certificate is comprised of **six** stackable certificates*: Basic Manufacturing, Basic Manufacturing CAD, Advanced Manufacturing CAD, Basic Power Generation, Electrical for Manufacturing, and Manufacturing-Automation for Metals Joining and Severing Processes and one additional course. Students who complete the six stackable certificates and this certificate will also earn an OSHA-10 Construction Safety Card or an OSHA-30 Construction Safety Card and NCCER certification in demonstrated skills.

Required Major Courses (45 Credits)		Cr	Gr	Sem	Notes
Basic Manufacturing Certificate*					
MFG 185	Quality Control and Inspection	3			
MFG 195	Materials Science and Metallurgy	3			
MFG 201	Machinery/Indust. Valve & Pump, Maintenance & Repair	3			
Basic Manufacturing CAD Certificate*					
CNC 101	CNC Machine Operator	3			
DFT 100	AutoCad 1 - Drafting	3			
Advanced Manufacturing CAD Certificate*					
CNC 201	Computer Aided Programming for CNC Machines	3			
DFT 100	AutoCad 1 - Drafting	3			
DFT 180	CAD with Solidworks	3			
Basic Power Generation Certificate*					
ECT 240	Power Generation Operation, Maintenance & Repair	3			
Electrical for Manufacturing Certificate*					
ECT 105	Basic Electricity	3			
ECT 210	Control Circuits	4			
ECT 230	Programmable Logic Controllers	3			
Manufacturing-Automation for Metals Joining and Severing Processes Certificate*					
WLD 109	Techniques in Gas Metal Arc Welding	3			
WLD 201	Automation for metals Joining and Severing Processes	4			
Select one of the following courses					
TEC 125	10-Hour OSHA Construction Card	1			
TEC 165	Employee and Occupational Safety	3			

* In order for students to earn one or more of the stackable certificates identified above, a student must declare one or more of the desired stackable certificates as a major, along with the manufacturing certificate.