

HS Name:  
 Community College Name:  
 CTE Program of Study:  
 Date:

Glencoe High School  
 Portland Community  
 Machine/Welding  
 June-11

**Skill Set Crosswalk for Cluster Area--  
 Manufacturing**

<http://www.ode.state.or.us/apps/oss/default.aspx?cla=311&c=952>

Code& #	Standard	Machine/Weld 1	Machine/Weld 2	CC- Welding (all)	CC-MCH 101	CC-MCH 102	CC-MCH120	CC-MCH 121	CC-MCH 125	CC-MCH 130	CC-MCH 145	CC-MCH 160	CC-MCH 180
MNZ01.01	Use mathematics in the manufacturing process.	x	x	x			x		x	x			
MNZ01.02	Understand the application of the principles of science used in manufacturing.										x	x	x
MNZ05.01	Summarize and explain how manufacturing businesses operate to demonstrate an understanding of key functions within organizations in the industry.		x			x							
MNZ05.02	Analyze and summarize how manufacturing businesses improve performance to demonstrate an understanding of various methods for enhancing production.		x			x							
MNZ06.01	Maintain safe and healthful working conditions and environment to ensure employee safety.	x	x	x	x								
MNZ06.02	Understand employee rights and responsibilities and employers obligations concerning occupational safety and health.		x		x								
MNZ06.03	Assess types and sources of workplace hazards in order to maintain safe working conditions in a manufacturing business environment.			x	x								
MNZ06.04	Control workplace hazards in order to maintain safe working conditions in a manufacturing business environment.		x	x	x								
MNZ08.01	Summarize safety, health, and environmental management systems to build an understanding of compliance with governmental policies and procedures for manufacturing businesses.												
MNZ10.01	Describe and employ technical skills and knowledge required for careers in manufacturing in order to perform basic workplace activities common to manufacturing.	x	x	x				x					

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MNZ01.01	Use mathematics in the manufacturing process.	x	x	x			x		x	x			
MNZ01.02	Understand the application of the principles of science used in manufacturing.										x	x	x
MNZ05.01	Summarize and explain how manufacturing businesses operate to demonstrate an understanding of key functions within organizations in the industry.		x			x							
MNZ05.02	Analyze and summarize how manufacturing businesses improve performance to demonstrate an understanding of various methods for enhancing production.		x			x							
MNZ06.01	Maintain safe and healthful working conditions and environment to ensure employee safety.	x	x	x	x								
MNZ06.02	Understand employee rights and responsibilities and employers obligations concerning occupational safety and health.		x		x								
MNZ06.03	Assess types and sources of workplace hazards in order to maintain safe working conditions in a manufacturing business environment.			x	x								
MNZ06.04	Control workplace hazards in order to maintain safe working conditions in a manufacturing business environment.		x	x	x								
MNZ08.01	Summarize safety, health, and environmental management systems to build an understanding of compliance with governmental policies and procedures for manufacturing businesses.												
MNZ10.01	Describe and employ technical skills and knowledge required for careers in manufacturing in order to perform basic workplace activities common to manufacturing.	x	x	x				x					

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**Skill Set Crosswalk for Welding Focus Area**

Code & #	Standard	Machine/Weld	Machine/Weld	CC-WLD 111	CC-WLD 112	CC-WLD 113	CC-WLD 114	CC-WLD 131	CC-WLD 132	CC- WLD 261	CC- WLD 262	CC- WLD 271
MNPG06.01	Perform safety, health, inspection, and repair processes related to welding and thermal cutting.	x	x	x	x	x	x	x	x	x	x	x
MNPG10.01	Perform entry level welding processes using a variety of welding technologies including shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), and gas tungsten welding (GTAW).	x	x	x	x	x	x	x	x	x	x	x
MNPG10.02	Perform thermal cutting process using a variety of technologies including manual oxyfuel gas cutting (OFC), mechanized oxyfuel gas cutting (track burner), plasma arc cutting (PAC), and air carbon arc cutting (CAC-A).		x	x	x	x	x	x	x	x	x	x
MNPG10.03	Interpret drawing and welding symbols.		x	x	x	x	x	x	x	x	x	x
MNPG10.04	Perform advanced level welding processes using a variety of welding technologies including shielded metal arc welding (SMAW), gas metal arc welding (GMAW), flux cored arc welding (FCAW), and gas tungsten welding (GTAW).		x	x	x	x	x	x	x	x	x	x
MNPG10.05	Perform operations related to shop equipment used in welding, layout, and part preparation.	x	x	x	x	x	x	x	x	x	x	x
MNPG10.06	Understand basic welding metallurgy.		x	x	x	x	x	x	x	x	x	x