

High School Name:  
Community College Name:  
CTE Program of Study Name:  
Date:

**High School  
Portland Community College  
Machine Manufacturing Technology  
2/8/2016**

## Manufacturing Cluster

# Skills-to-Course Matrix

**Instructions:** 1) Click on Sample High School above and enter your High School Name above. 2) Enter the community college name. 3) Enter the Program of Study name. 4) Enter the date. 5) Click on Course 1, Course 2, etc. below and replace with your POS course names (or numbers). 6) Check those courses that trigger the TSA for this POS. 7) Finally, check those standards that are taught with intent and purpose in each course. (You only need to use the optional Focus Area tabs if you are using those skill sets for multiple options in a Program of Study or if you want to use another set of industry validated standards.)

## Cluster Knowledge and Skills (CTE standards)

Cluster Knowledge and Skills (CTE standards)		PCC MCH 100	TSA <sup>2</sup>	PCC MCH 212	TSA <sup>2</sup>	PCC MCH 103	TSA <sup>2</sup>	PCC MCH 125	TSA <sup>2</sup>	PCC MCH 145	TSA <sup>2</sup>	PCC MCH 150	TSA <sup>2</sup>
Code Number	KS Statement	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MNZ01.01	Use mathematics in the manufacturing process.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MNZ01.02	Understand the application of the principles of science used in manufacturing.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MNZ05.01	Summarize and explain how manufacturing businesses operate to demonstrate an understanding of key functions within organizations in the industry.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MNZ05.02	Analyze and summarize how manufacturing businesses improve performance to demonstrate an understanding of various methods for enhancing production.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MNZ06.01	Maintain safe and healthful working conditions and environment to ensure employee safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MNZ06.02	Understand employee rights and responsibilities and employers obligations concerning occupational safety and health.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MNZ06.03	Assess types and sources of workplace hazards in order to maintain safe working conditions in a manufacturing business environment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MNZ06.04	Control workplace hazards in order to maintain safe working conditions in a manufacturing business environment.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MNZ08.01	Summarize safety, health, and environmental management systems to build an understanding of compliance with governmental policies and procedures for manufacturing businesses.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MNZ10.01	Describe and employ technical skills and knowledge required for careers in manufacturing in order to perform basic workplace activities common to manufacturing.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

High School Name:  
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**Sample High School  
Portland Community College  
Machine Manufacturing Technology  
2/8/2016**

## Industrial & Engineering Systems Focus Area

## Skills-to-Course Matrix

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## **Focus Area Knowledge and Skills (CTE standards)**

Code Number	KS Statement
MNPH10.01	Perform skills necessary to operate metalforming equipment.
MNPH10.02	Handle materials used in metalforming operations.
MNPH10.03	Perform skills necessary in planning and controlling metalforming operations.
MNPH10.04	Perform bench operations related to machining.
MNPH10.05	Perform metal cutting operations on a lathe.
MNPH10.06	Perform metal cutting operations on a mill.
MNPH10.07	Perform metal cutting operations using contour sawing and electric discharge.
MNPH10.08	Perform metal cutting operations using a drill press.
MNPH10.09	Perform metal cutting operations using grinding equipment.
MNPH10.10	Perform inspection and quality assurance procedures in machining.
MNPH10.11	Understand properties of materials and their relationship to machining processes.

PCC MCH 110	TSA <sup>2</sup>	PCC MCH 272	TSA <sup>2</sup>	PCC MCH 105	TSA <sup>2</sup>	PCC MCH160	TSA <sup>2</sup>	PCC MCH 190	TSA <sup>2</sup>	PCC MCH205
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