

2019  
Skills-to-Course Matrix

Manufacturing  
Westview High School  
Portland Community College  
Sep-19

Manufacturing Cluster

**Instructions:** 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names--secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are taught with intent and purpose, and are assessed in each course. Note: The optional Focus Area tabs below are included for those POSs that have a very specific industry focus using those skill sets for multiple options in a Program of Study or if you want to use another set of industry validated standards.

			Creative Design 101	Creative Design 102	Manufacturing 1	Manufacturing 1	CAD 1	CAD 2	CAD 3	Robotics 1	Robotics 2	[Course 9 Name]	[Course 10 Name]
			A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]	[Course Number]
			13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]	[NCES Code]
			0.5	0.5	1	1	0.5	0.5	0.5	0.5	0.5	[# of Credits]	[# of Credits]
			N	N	Y	Y	N	N	N	N	N	[TSA--Y or N?]	[TSA--Y or N?]
CCTC*	Code Number	KS Statement											
MN 1	MN01	Evaluate the nature and scope of the Manufacturing Career Cluster™ and the role of manufacturing in society and in the economy.			x	x	x	x	x	x	x		
MN 2	MN02	Analyze and summarize how manufacturing businesses improve performance.			x	x							
MN 3	MN03	Comply with federal, state and local regulations to ensure worker safety and health and environmental work practices.	x	x	x	x							
MN 4	MN04	Describe career opportunities and means to achieve those opportunities in each of the Manufacturing Career Pathways.	x	x	x	x	x	x	x	x	x		
MN 5	MN05	Describe government policies and industry standards that apply to manufacturing.			x	x							

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Cluster Knowledge and Skills (CTE standards)			A513X	A514X	A5171	A5172	A521X	A522X	A523X	A562X	A563X	[Course Number]
			13003	13003	13003	13003	21107	21107	21107	21009	21009	[NCES Code]
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			N	N	Y	Y	N	N	N	N	N	[TSA--Y or N?]
CCTC*	Code Number	KS Statement										
MN-HSE 1	MNHS01	Demonstrate the safe use of manufacturing equipment.										
MN-HSE 2	MNHS02	Develop safety plans for production processes that meet health, safety and environmental standards.										
MN-HSE 3	MNHS03	Demonstrate a safety inspection process to assure a healthy and safe manufacturing environment.										
MN-HSE 4	MNHS04	Evaluate a system of health, safety and/or environmental programs, projects, policies or procedures to determine compliance.										
MN-HSE 5	MNHS05	Evaluate continuous improvement protocols and techniques in health, safety and/or environmental practices.										
MN-HSE 6	MNHS06	Conduct job safety and health analysis for manufacturing jobs, equipment										
MH-HSE 7	MNHS	Develop the components of a training program based on environmental health and safety regulations.										

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CCTC*	Code Number	KS Statement	N	N	Y	Y	N	N	N	N	N	[TSA--Y or N?]
	MNMF01	Perform skills necessary to operate metalforming equipment.										
	MNMF02	Handle materials used in metalforming operations.										
	MNMF03	Perform skills necessary in planning and controlling metalforming operations.										
	MNMF04	Perform bench operations related to machining.										
	MNMF05	Perform metal cutting operations on a lathe.										
	MNMF06	Perform metal cutting operations on a mill.										
	MNMF07	Perform metal cutting operations using contour sawing and electric discharge.										
	MNMF08	Perform metal cutting operations using a drill press.										
	MNMF09	Perform metal cutting operations using grinding equipment.										
	MNMF10	Perform inspection and quality assurance procedures in machining.										
	MNMF11	Understand properties of materials and their relationship to machining processes.										

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