

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

Sample High School
Portland Community College
Civil Engineering Tech.
2/1/2016

Engineering 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)		CMET 110	TSA?	CMET 111	TSA?	CMET 112	TSA?	CMET 121	TSA?	CMET 122	TSA?	CMET 133	TSA?
ENP01.01	Use effective communication skills with a variety of audiences.	☒		☒		☐		☒		☒		☒	
ENP02.01	Exhibit integrity and professionalism in engineering cluster occupations.	☒		☒		☒		☒		☒		☒	
ENP03.01	Use technology such as computers and design software to solve engineering problems.	☐		☐		☐		☐		☐		☒	
ENP04.01	Understand and use applied mathematics and science for engineering cluster careers.	☒		☒		☒		☒		☒		☒	
ENP05.01	Develop and implement a career plan within the engineering cluster occupations.	☒		☐		☐		☐		☐		☐	
ENP06.01	Use teamwork, critical thinking and problem solving skills to address complex problems in engineering.	☒		☒		☒		☒		☒		☒	
ENP07.01	Understand the role of engineering in society throughout history and how it is affected by economics, regulations, politics, and corporate culture.	☒		☐		☐		☐		☐		☐	
ENP08.01	Apply design principles and life-cycle methodology to create products, systems, and processes using appropriate technology.	☐		☐		☐		☐		☐		☒	
ENP09.01	Understand the impact personal characteristics, such as creativity, resourcefulness, the ability to visualize and the ability to think abstractly have on engineers and their ability to design.	☒		☒		☐		☒		☒		☒	
ENP10.01	Understand and adhere to safety, health, and environmental standards and regulations.	☐		☐		☐		☒		☒		☐	
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