

High School Name: **Tigard High School**
Community College Name: **Portland Community College**
CTE Program of Study Name: **Sample Program of Study**
Date: **5/1/2016**

Information & Communications Technology - ICT (I&E) 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)		Game Design	TSA?	Web Design	TSA?	Programming in C++	TSA?	Accelerated Placement	TSA?	IT Technician	TSA?	Network Administration	TSA?	Network Security	TSA?	Database Management	TSA?	Operating Systems	TSA?	Mobile Devices	TSA?	Cloud Administration	TSA?
Code Number	KS Statement	☐	☐	☐	☒	☐	☐	☐	☒	☐	☒	☐	☒	☐	☒	☐	☒	☐	☒	☐	☐	☐	☐
ITCi01.01	Use oral and written communication in creating, expressing, and interpreting information and ideas within the information and communication technologies cluster occupations.	☒		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	
ITCi02.01	Exhibit ethical and professional behavior.	☒		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	
ITCi03.01	Use information technology tools specific to the information and communication technologies cluster to access, manage, integrate, and create information.	☒		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	
ITCi04.01	Explore, plan, and effectively manage careers within the information and communication technologies cluster.	☒		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	
ITCi05.01	Perform problem solving and troubleshooting for information and communication cluster.	☐		☒	☐	☐	☐	☐	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	☐
ITCi06.01	Demonstrate an understanding of systems within the information and communication technologies environment.	☐		☐	☐	☐	☐	☐	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	☐
ITCi07.01	Use knowledge of design, operation, and maintenance of technological systems critical to the information and communication technologies cluster.	☒		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	☐
ITCi08.01	Understand and adhere to safety, health, and environmental standards and regulations.	☒		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	☐
ITCi09.01	Demonstrate ability to develop, implement, and maintain cybersecurity.	☐		☐	☐	☐	☐	☐	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	☐
ITCi10.01	Demonstrate ability to manage projects.	☒		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	☐
ITCi11.01	Demonstrate ability to manage, monitor, and evaluate work processes and procedures.	☒		☒	☒	☒	☒	☒	☒	☒	☒	☒	☒	☒		☒		☒		☒		☒	☐
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High School Name: _____
Community College Name: _____
CTE Program of Study Name: _____
Date: _____

**Tigard High School
Portland Community College
Computer Technology
5/1/2016**

Database Administration (I&E) Focus Area

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.

Focus Area Knowledge and Skills (CTE standards)

[illegible]

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

**Tigard High School
Portland Community College
Computer Technology
5/2/2016**

Enterprise System Analysis & Integration Focus Area

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.

Focus Area Knowledge and Skills (CTE standards)

Code Number	KS Statement
ICPCi01.01	Define customer requirements.
ICPCi02.01	Determine solutions for new and existing systems.
ICPCi03.01	Provide strategic direction for systems configuration and interoperability.
ICPCi04.01	Provide high-level technology management.
ICPCi05.01	Implement systems.
ICPCi06.01	Manage systems quality assurance and testing.

Operating System							TSA?	Course 2	TSA?	Course 3	TSA?	Course 4	TSA?	Course 5	TSA?	Course 6	TSA?
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High School Name:
Community College Name:
CTE Program of Study Name:
Date:

Tigard High School
Portland Community College
Computer Technology
5/1/2016

Interactive Media Focus Area

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.

Focus Area Knowledge and Skills (CTE standards)		Game Design	TSA Web Design	TSA Course 3	TSA Course 4	TSA Course 5	TSA Course 6	TSA
Code Number	KS Statement	☐	☐	☒	☐	☐	☐	☐
VPPAi01.01	Gather and analyze interactive media customer requirements.	☒	☒	☐	☐	☐	☐	☐
VPPAi01.02	Define scope of interactive media work in written form.	☒	☒	☐	☐	☐	☐	☐
VPPAi01.03	Create interactive media product specifications.	☒	☒	☐	☐	☐	☐	☐
VPPAi01.04	Demonstrate and apply knowledge of project management.	☒	☒	☐	☐	☐	☐	☐
VPPAi01.05	Demonstrate the effective use of tools for interactive media production, development and project management.	☒	☒	☐	☐	☐	☐	☐
VPPAi01.06	Demonstrate and apply knowledge of web programming and hosting.	☐	☒	☐	☐	☐	☐	☐
VPPAi01.07	Create/implement interactive media product.	☒	☒	☐	☐	☐	☐	☐
VPPAi01.08	Test interactive media product.	☒	☒	☐	☐	☐	☐	☐
VPPAi01.09	Deliver a quality interactive media product.	☒	☒	☐	☐	☐	☐	☐
VPPAi01.10	Perform maintenance and customer support functions for interactive media products.	☒	☒	☐	☐	☐	☐	☐
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High School Name:
Community College Name:
CTE Program of Study Name:
Date:

Tigard High School
Portland Community College
Computer Technology
5/1/2016

Network Design & Administration Focus Area

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.

Focus Area Knowledge and Skills (CTE standards)

Focus Area Knowledge and Skills (CTE standards)		Network Administration	TSA?	Course 2	TSA?	Course 3	TSA?	Course 4	TSA?	Course 5	TSA?	Course 6	TSA?
Code Number	KS Statement	☐	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
ICPDi01.01	Perform analysis of customer requirements.	☒		☐		☐		☐		☐		☐	
ICPDi02.01	Design network.	☒		☐		☐		☐		☐		☐	
ICPDi03.01	Configure and deploy network.	☒		☐		☐		☐		☐		☐	
ICPDi04.01	Perform testing on network.	☒		☐		☐		☐		☐		☐	
ICPDi05.01	Manage network.	☒		☐		☐		☐		☐		☐	
ICPDi06.01	Maintain network and manage growth.	☒		☐		☐		☐		☐		☐	
ICPDi07.01	Perform security administration.	☒		☐		☐		☐		☐		☐	
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High School Name:
Community College Name:
CTE Program of Study Name:
Date:

Tigard High School
Portland Community College
Computer Technology
5/1/2016

Programming & Software Engineering Focus Area

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.

Focus Area Knowledge and Skills (CTE standards)		Game Design	TSA?	Web Design	TSA?	Programming in C	TSA?	Accelated Placem	TSA?	Course 5	TSA?	Course 6	TSA?
Code Number	KS Statement	☒	☐	☒	☒	☒	☐	☒	☒	☐	☐	☐	☐
ICPEi01.01	Perform analysis of customer requirements.	☒		☒		☒		☒		☐		☐	
ICPEi02.01	Develop structure.	☒		☒		☒		☒		☐		☐	
ICPEi03.01	Design and develop program.	☒		☒		☒		☒		☐		☐	
ICPEi04.01	Implement program.	☒		☒		☒		☒		☐		☐	
ICPEi05.01	Test and validate program.	☒		☒		☒		☒		☐		☐	
ICPEi06.01	Release product.	☐		☒		☐		☐		☐		☐	
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**Tigard High School
Portland Community College
Computer Technology
5/1/2016**

Skills-to-Course Matrix

Code Number	KS Statement
ICPFi01.01	Perform troubleshooting.
ICPFi02.01	Provide facilitation and customer service.
ICPFi03.01	Perform hardware and software installation, configuration, upgrades, and network support.
ICPFi04.01	Perform system operations, monitoring, and maintenance.

[illegible]

**Sample High School
Sample Community College
Sample Program of Study
6/30/2012**

Skills-to-Course Matrix

Course 1 ☐ TSA? Course 2 ☐ TSA? Course 3 ☐ TSA? Course 4 ☐ TSA? Course 5 ☐ TSA? Course 6 ☐ TSA?

Code Number	KS Statement
ICPGi01.01	Analyze project requirements.
ICPGi02.01	Perform research.
ICPGi03.01	Design the document.
ICPGi04.01	Develop and write the document.
ICPGi05.01	Publish and package the document.

[illegible]

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

**Sample High School
Sample Community College
Sample Program of Study
6/30/2012**

Telecommunications Focus Area

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.

Focus Area Knowledge and Skills (CTE standards)

[illegible]

High School Name:

Tigard High School

Community College Name:

Portland Community College

CTE Program of Study Name:

Computer Technology

Date:

5/1/2016

Web Development & Administration Focus Area

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.

Focus Area Knowledge and Skills (CTE standards)		Web Design	TSA Course 2	TSA Course 3	TSA Course 4	TSA Course 5	TSA Course 6	TSA
Code Number	KS Statement	☐	☐	☐	☐	☐	☐	☐
ICPHi01.01	Understand and perform technical analysis.	☒	☐	☐	☐	☐	☐	
ICPHi02.01	Understand and perform web programming.	☒	☐	☐	☐	☐	☐	
ICPHi03.01	Develop, deliver and manage web content.	☒	☐	☐	☐	☐	☐	
ICPHi04.01	Implement and maintain site and applications.	☒	☐	☐	☐	☐	☐	
ICPHi05.01	Manage web environment.	☒	☐	☐	☐	☐	☐	
ICPHi06.01	Manage enterprise-wide web activities.	☒	☐	☐	☐	☐	☐	
ICPHi07.01	Perform testing and quality assurance.	☒	☐	☐	☐	☐	☐	
ICPHi08.01	Develop and implement web database.	☒	☐	☐	☐	☐	☐	
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