

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

Sample High School  
Portland Community College  
Information Communication Technology  
2/5/2016

# 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)		CIS 120		CIS 121		CIS 122		CIS 133X		CIS 140M	
Code Number	KS Statement	<input type="checkbox"/>	TSA?	<input type="checkbox"/>	TSA?	<input type="checkbox"/>	TSA?	<input type="checkbox"/>	TSA?	<input type="checkbox"/>	TSA?
ITCi01.01	Use oral and written communication in creating, expressing, and interpreting information and ideas within the information and communication technologies cluster occupations.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
ITCi02.01	Exhibit ethical and professional behavior.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
ITCi03.01	Use information technology tools specific to the information and communication technologies cluster to access, manage, integrate, and create information.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
ITCi04.01	Explore, plan, and effectively manage careers within the information and communication technologies cluster.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
ITCi05.01	Perform problem solving and troubleshooting for information and communication cluster.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
ITCi06.01	Demonstrate an understanding of systems within the information and communication technologies environment.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
ITCi07.01	Use knowledge of design, operation, and maintenance of technological systems critical to the information and communication technologies cluster.	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
ITCi08.01	Understand and adhere to safety, health, and environmental standards and regulations.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
ITCi09.01	Demonstrate ability to develop, implement, and maintain cybersecurity.	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
ITCi10.01	Demonstrate ability to manage projects.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
ITCi11.01	Demonstrate ability to manage, monitor, and evaluate work processes and procedures.	<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	

High School Name:  
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Network Design & Administration Focus Area

Skills-to-Course Matrix

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Focus Area Knowledge and Skills (CTE standards)															
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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Technical Support Focus Area

Skills-to-Course Matrix

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Focus Area Knowledge and Skills (CTE standards)		CIS 120	TSA?	CIS 121	TSA?	CIS 140M	TSA?	CIS 145	TSA?	CIS 179	TSA?	CIS 225	TSA?
Code Number	KS Statement	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
ICPFI01.01	Perform troubleshooting.	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
ICPFI02.01	Provide facilitation and customer service.	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	
ICPFI03.01	Perform hardware and software installation, configuration, upgrades, and network support.	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	
ICPFI04.01	Perform system operations, monitoring, and maintenance.	<input 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"/>		<input type="checkbox"/>		<input type="checkbox"/>	
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High School Name: **Sample High School**  
Community College Name: **Portland Community College**  
CTE Program of Study Name: **Information Communication Technology**  
Date: **2/5/2016**

## 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)**

[illegible]

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

Sample High School  
Portland Community College  
Information Communication Technology  
2/5/2016

## Programming & Software Skills-to-Course Matrix

**Instructions:** 1) Click on Sample High School  
Study name 4) Enter the date 5) Click

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

Code Number	KS Statement
ICPEb01.01	Perform analysis of customer requirements.
ICPEb02.01	Develop structure.
ICPEb03.01	Design and develop program.
ICPEb04.01	Implement program.
ICPEb05.01	Test and validate program.
ICPEb06.01	Release product.

	CIS 120	TSA?		CIS 121
<input type="checkbox"/>		<input type="checkbox"/>		
<input checked="" type="checkbox"/>				<input type="checkbox"/>
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on Course 1, Course 2, etc. below and replace with your POS course names (or numbers). 6)

<input type="checkbox"/> TSA?		<input type="checkbox"/> TSA?		<input type="checkbox"/> TSA?		<input type="checkbox"/> TSA?
	CIS 122		CIS 233		CIS 244	
	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
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3) Enter the Program of  
Check those courses

CIS 275

TSA?

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