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

Information & Communications Technology - ICT (I&E) Cluster

Skills-to-Course Matrix

<u>Instructions</u>: 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 Progam of Study or if you want to use another set of industry validated standards.)

| | Cluster Knowledge and Skills (CTE standards) | Applied web Des | Programming 1 | Programming 1 | wen Design 1 15 A? | Strutistinicom TSA? |
|-------------|---|---|---------------|---------------|--------------------|---------------------|
| Code Number | | | | | | 4 |
| ITCi01.01 | Use oral and written communication in creating, expressing, and interpreting information and ideas within the information and communication technologies cluster occupations. | 4 | 7 | 7 | 4 | |
| ITCi02.01 | Exhibit ethical and professional behavior. | 7 | 7 | 7 | 7 | v |
| ITCi03.01 | Use information technology tools specific to the information and communication technologies cluster to access, manage, integrate, and create information. | 7 | 7 | 7 | J | 7 |
| ITCi04.01 | Explore, plan, and effectively manage careers within the information and communication technologies cluster. | Image: section of the content of the | ✓ | V | 7 | V |
| ITCi05.01 | Perform problem solving and troubleshooting for information and communication cluster. | Image: section of the content of the | V | V | 7 | V |
| ITCi06.01 | Demonstrate an understanding of systems within the information and communication technologies environment. | Image: section of the content of the | V | 7 | 7 | 7 |
| ITCi07.01 | Use knowledge of design, operation, and maintenance of technological systems critical to the information and communication technologies cluster. | Image: section of the content of the | ✓ | V | 7 | . |
| ITCi08.01 | Understand and adhere to safety, health, and environmental standards and regulations. | Image: section of the content of the | ✓ | V | 7 | . |
| ITCi09.01 | Demonstrate ability to develop, implement, and maintain cybersecurity. | Image: section of the content of the | V | V | 7 | V |
| ITCi10.01 | Demonstrate ability to manage projects. | □ □ | V | V | | ✓ |
| ITCi11.01 | Demonstrate ability to manage, monitor, and evaluate work processes and procedures. | | 7 | 7 | 7 | v |
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Century High School Portland Community College Information Communication Technology 2/5/2016

Network Design & Administration Focus Area

Skills-to-Course Matrix

Focus Area Knowledge and Skills (CTE standards)

| Code N | Number | KS Statement | |
|---------|--------|--|--|
| ICPDi0 | 1.01 | Perform analysis of customer requirements. | |
| ICPDi02 | 2.01 | Design network. | |
| ICPDi0 | 3.01 | Configure and deploy network. | |
| ICPDi04 | 4.01 | Perform testing on network. | |
| ICPDi0 | 5.01 | Manage network. | |
| ICPDi0 | 6.01 | Maintain network and manage growth. | |
| ICPDi0 | 7.01 | Perform security administration. | |
| | | | |

| name. 3) Er | nter the Program of Stunames (or numbers). | ligh School above and endy name. 4) Enter the of the courses of the courses of the course. | date. 5) Click on Cours that trigger the TSA fo | se 1, Course 2, etc. be or this POS. 7) Finally, | elow and replace wi check those standa | th your |
|----------------|--|--|--|---|---|--------------|
| Applied web De | TSA? Programme | TSA? Programming 2 | TSA? Web Design¹ | TSA? STWICOTO | √ekg. □ | √ 883 |
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are taught with intent and purpose in each course.

<u>Instructions</u>: 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

Technical Support Focus Area

Skills-to-Course Matrix

| | Focus Area Knowledge and Skills (CTE standards) | Applied Web De | TSA ³ Programming 1 | TSA? Programming 2 | Tsh? Neb Design? | rsa? □ sauristwicor | ∆ ≺∂ ₀ , | |
|------------|---|----------------|--------------------------------|--------------------|------------------|------------------------|------------------------|--|
| Code Numbe | er KS Statement | _ 🗆 | | \sqcup | | \sqcup | | |
| 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. | | | | | | | |
| | | | | | | | | |

Date:

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

Web Development & Administration Focus Area

Skills-to-Course Matrix

Focus Area Knowledge and Skills (CTE standards)

| 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. | G |
| ICPHi05.01 | Manage web environment. | G |
| ICPHi06.01 | Manage enterprise-wide web activities. | |
| ICPHi07.01 | Perform testing and quality assurance. | [|
| ICPHi08.01 | Develop and implement web database. | [|

<u>Instructions</u>: 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.

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| Applied web Desti | 15A? Programming 1 | TSA ³ Programming ² | rsa? wendesien? | SKUTSTWICOM | _ ^২৮ _৫ . | √ 58 ³ |
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| V | | v | v | | | |
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High School Name:

Community College Name:

CTE Program of Study Name:

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Date:

Programming & Software

Skills-to-Course Matrix

Instructions: 1) Click on Sample High So

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| | | Study name, 4) Fnter the | date. 5) Click |
|-------------|--|--------------------------|------------------------|
| Focus Ar | ea Knowledge and Skills (CTE standards) | Study name, 4) Enter the | Programme ¹ |
| 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. | | ✓ |

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chool above and enter your High School Name above. 2) Enter the community college name on Course 1. Course 2. etc. below and replace with your POS course names (or numbers). 61

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