

HS Name:
Community College Name:
CTE Program of Study:
Date:

High School
Portland Community College
I&E CONSTRUCTION
June-11

Skill Set Crosswalk for Cluster Area--
Construction

Code# & Standard	Woods I	Basic Const	Woods II	Advanced Const	HS-	HS-	CC-	CC-
COZ01.01 - Perform math operations such as estimating and distributing materials and supplies to complete jobsite/workplace tasks.	1	2	2	3			104	220
COZ01.02 - Apply principles of science as they relate to worksite/jobsite situations to work with materials and load applications.							222	108
COZ02.01 - Use vocabulary and visual cues commonly used in design and construction to be successful in workplace/jobsite communications.		2		3			100,103,102	213, 225
COZ03.01 - Create and implement project plans considering available resources and requirements of a project/problem to accomplish realistic planning in design and construction situations.		1		2			Arch 110, Arch 126	Arch 136
COZ03.02 - Evaluate and adjust design and construction project plans and schedules to respond to unexpected events and conditions.	1	2	2	3			BCT 100, 102, 213	
COZ05.01 - Examine how the roles and responsibilities among trades/professions work in relationship to complete a project/job.		2					100	
COZ05.02 - Examine all factors effecting the project and the planning process.		2					100	
COZ05.03 - Understand and manage union-management relationships and contracts to create a cooperative work environment.							Arch 132, 133	
COZ06.01 - Comply with regulations and applicable codes to establish a legal and safe workplace/jobsite.							BCT 106, 130	
COZ06.02 - Assess and control the types and sources of workplace hazards to ensure a safe workplace and jobsite.	1	1	2	3				
COZ07.01 - Establish specific goals to manage project assignments in a timely manner.	1	1	2	3				225
	2		2				202	

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COZ08.01 - Recognize legal and ethical relationships between employees and employers to establish workplace/jobsite rules, regulations and guidelines in a design and/or construction setting.								221
COZ08.02 - Read regulations and contracts to ensure ethical and safety elements are observed.			1		3			221
COZ08.03 - Use ethical and legal standards to avoid conflicts of interest in a design and/or construction setting.								221
COZ09.01 - Explain written organizational policies, rules and procedures common in design and construction settings to help employees perform their jobs.	1		1	2	3			100, 202,221
COZ09.02 - Recognize the responsibilities and personal characteristics of a professional craftsman to develop personal goals for professionalism.	2			2				100 & all hands-on courses
COZ10.01 - Read, interpret, and use technical drawings, documents, and specifications to plan a project.	1		2	2	3			102, 213 & hands on courses
COZ10.02 - Use and maintain appropriate tools, machinery, equipment, and resources to accomplish project goals.	2		3	2	3			106

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COZ01.01 - Perform math operations such as estimating and distributing materials and supplies to complete jobsite/workplace tasks.	1	2	2	3			104	220
COZ01.02 - Apply principles of science as they relate to worksite/jobsite situations to work with materials and load applications.							222	108
COZ02.01 - Use vocabulary and visual cues commonly used in design and construction to be successful in workplace/jobsite communications.		2		3			100,103,102	213, 225
COZ03.01 - Create and implement project plans considering available resources and requirements of a project/problem to accomplish realistic planning in design and construction situations.		1		2			Arch 110, Arch 126	Arch 136
COZ03.02 - Evaluate and adjust design and construction project plans and schedules to respond to unexpected events and conditions.	1	2	2	3			BCT 100, 102, 213	
COZ05.01 - Examine how the roles and responsibilities among trades/professions work in relationship to complete a project/job.		2					100	
COZ05.02 - Examine all factors effecting the project and the planning process.		2					100	
COZ05.03 - Understand and manage union-management relationships and contracts to create a cooperative work environment.							Arch 132, 133	
COZ06.01 - Comply with regulations and applicable codes to establish a legal and safe workplace/jobsite.							BCT 106, 130	
COZ06.02 - Assess and control the types and sources of workplace hazards to ensure a safe workplace and jobsite.	1	1		2	3			
COZ07.01 - Establish specific goals to manage project assignments in a timely manner.	1	1		2	3			225
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	Woods I	Basic Const	Woods II	Advanced Const	HS-	HS-	CC-	CC-
COZ08.01 - Recognize legal and ethical relationships between employees and employers to establish workplace/jobsite rules, regulations and guidelines in a design and/or construction setting.							221	
COZ08.02 - Read regulations and contracts to ensure ethical and safety elements are observed.			1		3		221	
COZ08.03 - Use ethical and legal standards to avoid conflicts of interest in a design and/or construction setting.							221	
COZ09.01 - Explain written organizational policies, rules and procedures common in design and construction settings to help employees perform their jobs.	1		1	2	3		100, 202,221	
COZ09.02 - Recognize the responsibilities and personal characteristics of a professional craftsman to develop personal goals for professionalism.	2			2			100 & all hands-on courses	
COZ10.01 - Read, interpret, and use technical drawings, documents, and specifications to plan a project.	1		2	2	3		102, 213 & hands on courses	
COZ10.02 - Use and maintain appropriate tools, machinery, equipment, and resources to accomplish project goals.	2		3	2	3			106

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Skill Set Crosswalk for Sustainable Building
Focus Area

Code # & Standard	Beginning Const.	Advanced Const.	HS-	HS-	HS-	HS-	CC-
COPK01.02 - Understand how fundamental science concepts and strategies are applied through building science.	1						
COPK10.01 - Understand the rationale for sustainability and green building.	1		3				
COPK10.02 - Explain the issues, concepts, strategies, and practices of sustainable site planning and land use.							
COPK10.03 - Identify water-efficiency and management issues, concepts, strategies, and practices associated with green building.							
COPK10.04 - Understand how energy is used in buildings and how energy-saving materials, systems, and techniques are utilized in green buildings.	1						
COPK10.05 - Identify indoor environmental quality (IEQ) issues, concepts, strategies and practices associated with green building.	1		3				
COPK10.06 - Understand how materials selection and use is applied in green building.	1		3				
COPK10.07 - Identify green building industry tools and resources.	1						
COPK10.08 - Understand how industry accepted practices associated with design, construction and certification impact green building.							

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**Skill Set Crosswalk for Design/Pre-
 Construction Focus Area**

Code # & Standard	Basic Const	Advanced Const	HS-	HS-	HS-	HS-	CC-	CC-
COPA02.01 - Use communication skills and strategies to work effectively with potential clients		1	3					
COPA03.01 - Employ basic methods of data collection and analysis to provide information for projects.								
COPA05.01 - Integrate structural, environmental, safety, building envelopes and building service systems to design and construct buildings and structures.		1						
COPA05.02 - Review traditional project phases and various roles within them to plan for and implement phases within a project								
COPA05.03 - Apply the suitable practices of environmental impact to enhance project acceptance and quality.								
COPA08.01 - Apply objective construction guidelines for the accommodation of people with varying physical abilities to meet accessibility requirements.								
COPA08.02 - Appreciate the diversity of needs, values and social patterns in project design to appropriately meet client needs.								2
COPA10.01 - Develop technical drawings drafted by hand and computer-generated plans to design structures.								
COPA10.02 - Employ appropriate representational media to communicate concepts and design.								

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Skill Set Crosswalk for Design/Pre-Construction Focus Area

COPA10.03 - Employ principles, conventions, standards, applications and restrictions pertaining to the manufacture and use of construction materials, components and assemblies to incorporate into project design.

COPA10.04 - Apply basic organizational, spatial, structural and constructional principles to the design of interior and exterior space so that design plans are effective.

COPA10.05 - Read technical drawings and documents to plan a project.

COPA10.06 - Evaluate business and financial management practices needed in drafting and design industries.

COPA10.07 - Create technical sketches using technical sketching techniques and procedures.

COPA10.08 - Use a CADD system and procedures.

Basic Const

Advanced Const

HS-

HS-

HS-

HS-

CC-

CC-