gh School Name: **Gaston High School**
y College Name: **Portland Community College**
of Study Name: **Building Contruction Technology**
Date: **2/8/2016**

Construction Cluster

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 Progam of Study or if you want to use another set of industry validated standards.)

Skills-to-Course Matrix

Cluster Knowledge and Skills (CTE standards)

Code Number	KS Statement	BCT 103	TSA?	BCT 120	TSA?	BCT 204B	TSA?	BCT 211	TSA?	BCT 219	TSA?	BCT 225	TSA?
COZ01.01	Perform math operations such as estimating and distributing materials and supplies to complete jobsite/workplace tasks.	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
COZ01.02	Apply principles of science as they relate to worksite/jobsite situations to work with materials and load applications.	☐	☐	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐
COZ02.01	Use vocabulary and visual cues commonly used in design and construction to be successful in workplace/jobsite communications.	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐
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.	☑	☐	☐	☐	☑	☐	☑	☐	☑	☐	☑	☐
COZ03.02	Evaluate and adjust design and construction project plans and schedules to respond to unexpected events and conditions.	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐	☑	☐
COZ05.01	Examine how the roles and responsibilities among trades/professions work in relationship to complete a project/job.	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐
COZ05.02	Examine all factors effecting the project and the planning process.	☑	☐	☑	☐	☑	☐	☑	☐	☐	☐	☑	☐
COZ05.03	Understand and manage union-management relationships and contracts to create a cooperative work environment.	☐	☐	☑	☐	☐	☐	☐	☐	☐	☐	☑	☐
COZ06.01	Comply with regulations and applicable codes to establish a legal and safe workplace/jobsite.	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐
COZ06.02	Assess and control the types and sources of workplace hazards to ensure a safe workplace and jobsite.	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐
COZ07.01	Establish specific goals to manage project assignments in a timely manner.	☐	☐	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐
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.	☐	☐	☐	☐	☐	☐	☑	☐	☐	☐	☑	☐
COZ08.02	Read regulations and contracts to ensure ethical and safety elements are observed.	☑	☐	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐
COZ08.03	Use ethical and legal standards to avoid conflicts of interest in a design and/or construction setting.	☑	☐	☑	☐	☑	☐	☐	☐	☑	☐	☑	☐
COZ09.01	Explain written organizational policies, rules and procedures common in design and construction settings to help employees perform their jobs.	☐	☐	☐	☐	☑	☐	☐	☐	☑	☐	☑	☐
COZ09.02	Recognize the responsibilities and personal characteristics of a professional craftsperson to develop personal goals for professionalism.	☑	☐	☐	☐	☑	☐	☑	☐	☐	☐	☑	☐
COZ10.01	Read, interpret, and use technical drawings, documents, and specifications to plan a project.	☐	☐	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐
COZ10.02	Use and maintain appropriate tools, machinery, equipment, and resources to accomplish project goals.	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐	☑	☐
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High School Name: **Gaston High School**
Community College Name: **Portland Community College**
CTE Program of Study Name: **Building Contruction Technology**
Date: **2/8/2016**

Construction 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 Progam of Study or if you want to use another set of industry validated standards.)

Cluster Knowledge and Skills (CTE standards)

Code Number	KS Statement	BCT 103	TSA?	BCT 120	TSA?	BCT 204B	TSA?	BCT 211	TSA?	BCT 219	TSA?	BCT 225	TSA?
		☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
COPF10.01	Identify building materials, fasteners, adhesives, and their uses.	☑		☑		☑		☑		☑		☑	☑
COPF10.02	Read plans and elevations.	☐		☑		☑		☐		☐		☐	☐
COPF10.03	Identify and install floor systems.	☑		☑		☐		☑		☑		☐	☐
COPF10.04	Indentify and install wall and ceiling framing.	☑		☑		☑		☑		☑		☐	☐
COPF10.05	Identify and install roof framing and roofing.	☑		☐		☐		☑		☑		☐	☐
COPF10.06	Install concrete reinforcing materials and forms.	☐		☑		☐		☐		☑		☑	☑
COPF10.07	Install windows and exterior doors.	☐		☐		☑		☐		☐		☑	☑
COPF10.08	Complete basic stair layout and construction.	☐		☐		☑		☐		☐		☐	☑
COPF10.09	Conduct distance measurement and leveling for site layout.	☐		☑		☑		☑		☑		☑	☑
COPF10.10	Describe properties and testing methods for concrete.	☑		☐		☐		☐		☑		☐	☐
COPF10.11	Prepare foundations and flatwork.	☐		☐		☐		☐		☑		☐	☐
COPF10.12	Handle and place concrete.	☐		☐		☐		☐		☑		☐	☐
COPF10.13	Install exterior finishing.	☐		☐		☐		☐		☐		☑	☐
COPF10.14	Install thermal and moisture protection.	☐		☑		☐		☐		☐		☑	☐
COPF10.15	Install and finish drywall.	☐		☐		☐		☐		☐		☐	☑
COPF10.16	Install interior doors.	☐		☐		☐		☐		☐		☐	☑
COPF10.17	Install interior trim.	☐		☐		☐		☐		☐		☐	☑
COPF10.18	Install cabinets.	☐		☐		☐		☐		☐		☐	☑
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High School Name	**Gaston High School**
Community College Name	**Portland Community College**
CTE Program of Study Name	**Building Contruction Technology**
Date	**2/8/2016**

Construction Cluster

Skills-to-Course Matrix

Instructions: 1) Click on course High School prefix and enter your High School course name. 2) Enter the community college name. 3) Enter the Program of Study name. 4) Under 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 the POS. 7) Finally, enter the course descriptions, credits, and grade level for each proposed course. This info. need to be verified by community college faculty. Note: Some skills/standards may align with more than one course and/or multiple options in a Program of Study or if you have another course that aligns with the skills/standards, add it.

Cluster Knowledge and Skills (CTE standards)		■ BCT 100 ■	TSA? ■	■ BCT 120 ■	TSA? ■	■ BCT 2048 ■	TSA? ■	■ BCT 211 ■	TSA? ■	■ BCT 213 ■	TSA? ■	■ BCT 215 ■	TSA? ■
Code Number	**KS Statement**												
CCPS09.01	Understand contractual relationships with all parties involved in the building process to ensure successful build of projects.	■		■		■		■		■		■	
CCPS09.02	Design and implement submittal approval procedures to ensure effective flow of information in construction process.	■		■		■		■		■		■	
CCPS09.03	Understand risk management and use a variety of strategies and tactics to maintain, increase or decrease risk.	■		■		■		■		■		■	
CCPS09.04	Understand construction subcontracts and manage working relationships on a project.	■		■		■		■		■		■	
CCPS09.05	Understand and apply project turnover procedures to successfully manage construction projects.	■		■		■		■		■		■	
CCPS09.06	Build in accordance with contracts to meet budget and schedule.	■		■		■		■		■		■	
CCPS09.07	Understand and implement testing, and inspection procedures to ensure successful completion of the project.	■		■		■		■		■		■	
CCPS09.08	Understand purpose for scheduling, as it relates to successful completion of the project.	■		■		■		■		■		■	
CCPS09.09	Understand and apply closeout procedures to effectively complete a project.	■		■		■		■		■		■	
CCPS09.01	Create and apply a jobsite safety program to ensure safe practices and procedures.	■		■		■		■		■		■	
CCPS09.02	Recognize and employ universal construction signs and symbols to function safely in the workplace.	■		■		■		■		■		■	
CCPS09.03	Understand and apply procedures for jobsite security to prevent liability.	■		■		■		■		■		■	
CCPS09.04	Create and apply a jobsite environmental program.	■		■		■		■		■		■	
CCPS09.05	Manage relationships with internal and external parties to successfully complete construction projects.	■		■		■		■		■		■	
CCPS09.01	Understand proper changeover procedures for successful completion of the project.	■		■		■		■		■		■	
CCPS09.02	Examine building, systems and components to evaluate their usefulness to a project.	■		■		■		■		■		■	

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