

2019

Skills-to-Course Matrix

Construction
 Sherwood High School
 Portland Community College
 Mar-19

Carpentry Focus Area

Instructions: 1) Enter the Program of Study name above. 2) Enter your high school name. 3) Enter the community college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, Course 2 Name, etc., and replace with your POS course names--secondary and first year of post-secondary. 6) Enter school course numbers. 7) Enter NCES code for the course (secondary only). 8) Enter number of credits awarded. 9) Identify those courses that trigger the TSA for this POS. 10) Finally, check those standards that are taught with intent and purpose, and are assessed in each course. Note: The optional Focus Area tabs below are included for those POSs that have a very specific industry focus using those skill sets for multiple options in a Program of Study or if you want to use another set of industry validated standards.

		Woods 1	Furniture/Cabinetry	Advanced Woods Proj	Advanced Woods Project	CTE Apprentice	Bowmen House 1	Bowmen House 2a	Bowmen House 2b	Bowmen House 2c	Bowmen House 3a	Bowmen House 3b	Bowmen House 3c	Advanced Turning	Line, Design and Buil	Line, Design and Build it b
		130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA	13053CB	13053CC	130538X	21010GA	21010GB
		17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17006	17999
		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1
Cluster Knowledge and Skills (CTE standards)																
CCTC*	Code Number	KS Statement														
	ACCR01	Identify building materials, fasteners, adhesives, and their uses.														
	ACCR02	Read plans and elevations.														
	ACCR03	Identify and install floor systems.														
	ACCR04	Identify and install wall and ceiling framing.														
	ACCR05	Identify and install roof framing and roofing.														
	ACCR06	Install concrete reinforcing materials and forms.														
	ACCR07	Install windows and exterior doors.														
	ACCR08	Complete basic stair layout and construction.														
	ACCR09	Conduct distance measurement and leveling for site layout.														
	ACCR10	Describe properties and testing methods for concrete.														
	ACCR11	Prepare foundations and flatwork.														
	ACCR12	Handle and place concrete.														
	ACCR13	Install exterior finishing.														
	ACCR14	Install thermal and moisture protection.														
	ACCR16	Install interior doors.														
	ACCR17	Install interior trim.														
	ACCR18	Install cabinets.														

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Construction Management Focus Area

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		Woods 1	Furniture/Cabinetry	Advanced Woods Proj	Advanced Woods Proj	CTE Apprentice	Bowmen House 1	Bowmen House 2a	Bowmen House 2b	Bowmen House 2c	Bowmen House 3a	Bowmen House 3b	Bowmen House 3c	Advanced Turning	Line, Design and Build	Line, Design and Build	Line, Design and Build
		130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA	13053CB	13053CC	130538X	21010GA	21010GB	21010GB
		17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17999	17999	17999
		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	1
Cluster Knowledge and Skills (CTE standards)																	
CCTC*	Code Number	KS Statement															
AC-CST 1	ACCS01	Understand contractual relationships with all parties involved in the building process to ensure successful build of a project.															
AC-CST 2	ACCS02	Understand approval procedures to ensure effective flow of information in the construction process.															
AC-CST 3	ACCS03	Understand and implement testing and inspection procedures to ensure successful completion of a construction project.															
AC-CST 4	ACCS04	Understand the purpose of scheduling as it relates to the successful completion of a construction project.															
AC-CST 5	ACCS05	Understand and apply practices and procedures required to maintain jobsite safety.															
AC-CST 6	ACCS06	Manage relationships with internal and external parties to successfully complete construction projects.															
AC-CST 7	ACCS07	Compare and contrast the building systems and components for a given project.															
AC-CST 8	ACCS08	Demonstrate the construction crafts required for each phase of a given project.															
AC-CST 9	ACCS09	Safely use and maintain appropriate tools, machinery, equipment, and resources to accomplish construction project goals.															

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Design/Pre-construction Focus Area

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		Woods 1	Furniture/Cabinetry	Advanced Woods Project	Advanced Woods Project	CTE Apprentice	Bowmen House 1	Bowmen House 2a	Bowmen House 2b	Bowmen House 2c	Bowmen House 3a	men House	men House	anced Tur	esign ane	esign and Build it b
		130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA	13053CB	13053CC	130538X	21010GA	21010GB
		17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17999	17999
		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1
CCTC*	Code Number	KS Statement														
AC-DES 1	ACDP01	Justify design solutions through the use of research documentation and analysis of data.														
AC-DES 2	ACDP02	Use effective communication skills and strategies (listening, speaking, reading, writing, and graphic communications) to work with clients and colleagues.														
AC-DES 3	ACDP03	Understand the integral systems that impact the design of buildings and structures.														
AC-DES 4	ACDP04	Apply building codes, laws, and rules in the design and construction of projects.														
AC-DES 5	ACDP05	Identify the diversity of needs, values, and social patterns in project design, including accessibility standards, to appropriately meet client needs.														
AC-DES 6	ACDP06	Apply the techniques and skills of modern drafting, design, engineering, and construction to projects.														
AC-DES 7	ACDP07	Employ appropriate representational media to communicate concepts and design.														
AC-DES 8	ACDP08	Apply principles, conventions, standards, applications, and restrictions pertaining to the selection and use of construction materials, components, and assemblies for project design.														

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Maintenance & Operations Focus Area

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		130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA	13053CB	13053CC	130538X	21010GA	21010GB
		17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17999	17999
		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1
CCTC*	Code Number	KS Statement														
AC-MO 1	COMO01	Recognize and employ universal construction signs and symbols to function safely in the workplace.														
AC-MO 2	COMO02	Use troubleshooting procedures when solving a maintenance problem to maintain buildings and structures.														
AC-MO 3	COMO03	Apply construction skills when repairing, restoring, or renovating existing structures.														
AC-MO 4	COMO04	Determine work required to repair or renovate an existing building or structure.														
AC-MO 5	COMO05	Plan and practice preventative maintenance activities to service existing structures.														
AC-MO 6	COMO06	Maintain and inspect building systems to achieve safe and efficient operation of facilities.														

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Plumbing Focus Area

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		130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA	13053CB	13053CC	130538X	21010GA	21010GB
		17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17999	17999
		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1
		Focus Area Knowledge and Skills (CTE standards)														
CCTC*	Code Number	KS Statement														
	ACPL01	Perform general plumbing practices.														
	ACPL02	Prepare and install building drainage systems.														
	ACPL03	Prepare and install vents.														
	ACPL04	Prepare and install traps.														
	ACPL05	Join pipes and fittings.														
	ACPL06	Install plumbing fixtures.														
	ACPL07	Layout and install water supply lines.														
	ACPL08	Install hot water systems.														
	ACPL09	Perform safety inspections.														
	ACPL10	Conduct plumbing service and repair.														

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Sheet Metal/HVAC Focus Area

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		130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA	13053CB	13053CC	130538X	21010GA	21010GB
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		0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1
		Focus Area Knowledge and Skills (CTE standards)														
CCTC*	Code Number	KS Statement														
	ACSM01	Understand the safe use of equipment and tools used in sheet metal and HVAC.														
	ACSM02	Perform proper piping practices.														
	ACSM03	Perform soldering and brazing operations.														
	ACSM04	Identify fasteners, hangers, and supports and their use in sheetmetal and HVAC.														
	ACSM06	Understand the fundamental concepts related to heating systems.														
	ACSM07	Understand the fundamental concepts related to air distribution systems.														
	ACSM08	Read and interpret blueprints related to HVAC and sheetmetal projects.														
	ACSM09	Understand fundamental sheet metal planning and layout.														
	ACSM10	Understand principles of sheet metal fabrication.														
	ACSM11	Maintain heating and cooling systems.														
	ACSM12	Understand the relationship between indoor air quality and HVAC.														
	ACSM13	Design heating and cooling systems.														