Skills-to-Course Matrix

Construction Sherwood High School Portland Community College Mar-19

Architecture & Construction Cluster

A	Architecture & Construction Cluster															
Enter the commun Course 2 Name, et post-secondary. 6) (secondary only). 8 TSA for this POS. and are <u>assessed</u> ithose POSs that he	Inter the Program of Study name above. 2) Enter your high school name. 3) hity college name. 4) Enter the date. 5) Click on the cell for Course 1 Name, tc., and replace with your POS course namessecondary and first year of 2) Enter school course numbers. 7) Enter NCES code for the course 3) Enter number of credits awarded. 9) Identify those courses that trigger the 10) Finally, check those standards that are taught with intent and purpose, in each course. Note: The optional Focus Area tabs below are included for ave a very specific industry fociusare using those skill sets for multiple options add or if you want to use another set of industry validated standards.	Woods 1	Furniture/Cabinetr	wyanced Woods Pro	ieanced Woods Pro	ojec CTE Apprentice	Rowmen House	1 Rowmen House 2	a. Bowmen House 2b	Bowmen House 20	Bowmen House 3	a Bowmen House 3h	n Bowmen House 3	s. Advanced Turnin	ng line. Design and Bu	ıilline, Design and Build
		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
	Cluster Knowledge and Skills (CTE standards)	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 Numb							•		Yes	Yes		Yes	Yes	•		
AC 1 AC01	Use vocabulary, symbols, and formulas commonly used in design and construction.	x	x	x	x	x	x	x	x	х	х	x	х		x	x
AC 2 AC02	Use architecture and construction skills to create and manage a project.	х	х	Х	х	х	х	х	Х	х	х	х	х		х	Х
AC 3 AC03	Comply with regulations and applicable codes to establish and manage a legal and safe workplace/jobsite.	x	x	x	x	x	x	x	x	x	x	x	x		x	x
AC 4 AC04	Understand the nature and scope of the Architecture &Construction Career Cluster TM and the role architecture and construction play in society and the															
	economy.	X	X	Х	Х	X	Х	X	X	Х	X	Х	Х		<u> </u>	X
AC 5 AC05	Understand the roles and responsibilities among trades and professions, including labor/management relationships.	x	х	x	x	x	x	x	x	x	x	x	x		x	x
AC 6 AC06	Read, interpret, and use technical drawings, documents, and specifications to plan a project.	x	x	x	x	x	x	x	x	x	x	x	x		x	x
AC 7 AC07	Evaluate a wide range of career pathway opportunities for success in															

Skills-to-Course Matrix

Construction
Sherwood High School
Portland Community College
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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 namessecondary 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 fociusare using those skill sets for multiple options in a Progam of Study or if you want to use another set of industry validated standards.	Woods 1	Furniture/Cabinetry	vanced Woods Pro	ojeanced Woods Proje	c CTE Apprentice	Bowmen House	1 Bowmen House 2a	Bowmen House 2b	Bowmen House 20	c Bowmen House 3	a Bowmen House 3I	b Bowmen House 3c	: Advanced Turning	ine, Design and Bui	ine, 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	17999	17999
Cluster Knowledge and Skills (CTE standards)	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		•		·				Yes	Yes	•	Yes	Yes			
ACCR01 Identify building materials, fasteners, adhesives, and their uses.						х	Х	Х	х	х	х	х			
ACCR02 Read plans and elevations.						х	X	х	x						
ACCR03 Identify and install floor systems.						х	X	х	x						
ACCR04 Indentify and install wall and ceiling framing.						х	х	х	х						
ACCR05 Identify and install roof framing and roofing.						х		х	x						
ACCR06 Install concrete reinforcing materials and forms.						х	X								1
ACCR07 Install windows and exterior doors.						х		х	x	х					
ACCR08 Complete basic stair layout and construction.						х	X	х							
ACCR09 Conduct distance measurement and leveling for site layout.						х	X	х	x						
ACCR10 Describe properties and testing methods for concrete.															
ACCR11 Prepare foundations and flatwork.						х	X	х	x						
ACCR12 Handle and place concrete.															
ACCR13 Install exterior finishing.										х	х	х			
ACCR14 Install thermal and moisture protection.										x	x	х			1
ACCR16 Install interior doors.										х	х	х			
ACCR17 Install interior trim.										х	х	х			
ACCR18 Install cabinets.										х	x	х			<u> </u>

Skills-to-Course Matrix

Construction Sherwood High School Portland Community College Mar-19

	Constr	ruction Management Focus Area															
Enter the Course 2 post-seco (secondar TSA for the and are a those PO	community colle Name, etc., and ndary. 6) Enter ry only). 8) Ente his POS. 10) Fir ssessed in each Ss that have a v	e Program of Study name above. 2) Enter your high school name. 3) ege name. 4) Enter the date. 5) Click on the cell for Course 1 Name, d replace with your POS course namessecondary and first year of school course numbers. 7) Enter NCES code for the course or number of credits awarded. 9) Identify those courses that trigger the hally, check those standards that are taught with intent and purpose, in course. Note: The optional Focus Area tabs below are included for very specific industry fociusare using those skill sets for multiple tudy or if you want to use another set of industry validated standards.	Woods 1	Furniture/Cabinetry	yvanced Woods Proj	eanced Woods Proje	ec CTE Apprentice	Bowmen House	1 Bowmen House 2a	a Bowmen House 2b	Bowmen House 20	c Bowmen House 3	a Bowmen House 3b	o Bowmen House 3	c : Advanced Turning	ine. Design and Bui	iline, Design and Build it
			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
	<u>Clust</u>	ter Knowledge and Skills (CTE standards)	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								Yes	Yes		Yes	Yes			
AC-CST	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.	x														
AC-CST	ACCS03	Understand and implement testing and inspection procedures to ensure successful completion of a construction project.	x						х	x	x	x	x	x			
AC-CST 4	ACCS04	Understand the purpose of scheduling as it relates to the successful completion of a construction project.	x						x	x	x	x	x	x			
AC-CST	ACCS05	Understand and apply practices and procedures required to maintain jobsite	x	x	x	x	x	x	x	x	x	x	x	х	x	x	x
AC-CST 6	ACCS06	Manage relationships with internal and external parties to successfully complete construction projects.	x														
AC-CST	ACCS07	Compare and contrast the building systems and components for a given project.						x	x	x	x						
AC-CST 8	B ACCS08	Demonstrate the construction crafts required for each phase of a given project.						x	x	x	x	x	x				
AC CST () ACCS00	Safely use and maintain appropriate tools, machinery, equipment, and resources									1	1					

Skills-to-Course Matrix

Construction

Sherwood High School Portland Community College Mar-19

Design/	Pre-construction	Focus A	Area

Design/Pre-construction 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 namessecondary 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 fociusare using those skill sets for multiple options in a Progam of Study or if you want to use another set of industry validated standards.	Woods 1	Furniture/Cabinetry	wanced Woods Proi	ieanced Woods Projec	CTE Apprentice	Bowmen House 1	Bowmen House 2a	Bowmen House 2b	Bowmen House 2	c Bowmen House	3a men Hous	men Hous	anced Tur	esign and	esign and
	130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA			130538X		
	17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17999	17999
Cluster Knowledge and Skills (CTE standards)	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								Yes	Yes		Yes	Yes			
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															
AC-DES 4 ACDP04							x	x	x	x	x	x	l		
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.															

Skills-to-Course Matrix

Construction

Sherwood High School Portland Community College Mar-19

Low Voltage Electricity Focus Area Instructions: 1) Enter the Program of Study name above. 2) Enter your high school name. 3)			T	1	I	T	<u> </u>		I	T					T
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 namessecondary 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 <u>assessed</u> in each course. Note: The optional Focus Area tabs below are included for															
those POSs that have a very specific industry fociusare using those skill sets for multiple															
options in a Progam of Study or if you want to use another set of industry validated standards.	Waada 4	5	wan and Manda Bus!		OTE Ammondia	Dawwa Hawa 4	Danima i Hana a		Dawwaa Hawaa 0a	Dawman Hawas					Assisses and Built
	Woods 1							Bowmen House 2b							
	130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA		13053CC			
	17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17999	17999
Focus Area Knowledge and Skills (CTE standards)	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		•	•	•		•	•	Yes	Yes	•	Yes	Yes			
ACLV01 Install pathways and spaces for low-voltage electrical systems.															
ACLV02 Prepare and install low-voltage cabling.															
ACLV03 Understand semiconductors and integrated circuits.															
ACLV04 Use test equipment.															
ACLV05 Understand power quality and grounding.															
ACLV06 Understand switching devices and timers.															
ACLV07 Prepare wire and cable terminations.															
ACLV08 Understand codes and standards related to low-voltage electrical.															
ACLV09 Use computer applications in low-voltage electrical systems.															
ACLV10 Conduct maintenance and repair on low-voltage electrical systems.															
ACLV11 Install rack systems for electronic equipment.															

Skills-to-Course Matrix

Construction

Sherwood High School Portland Community College Mar-19

	Maintenance & Operations Focus Area															
	ons: 1) Enter the Program of Study name above. 2) Enter your high school name.															
	ne community college name. 4) Enter the date. 5) Click on the cell for Course 1															
	ourse 2 Name, etc., and replace with your POS course namessecondary and first															
•	st-secondary. 6) Enter school course numbers. 7) Enter NCES code for the															
	econdary only). 8) Enter number of credits awarded. 9) Identify those courses that															
	e TSA for this POS. 10) Finally, check those standards that are <u>taught with intent</u> use, and are <u>assessed</u> in each course. Note: The optional Focus Area tabs below															
	ed for those POSs that have a very specific industry fociusare using those skill															
	ultiple options in a Progam of Study or if you want to use another set of industry															
validated st		Woods 1	Furniture/Cabinetry	ranced Woods Proje	anced Woods Projec	CTE Apprentice	Bowmen House 1	Bowmen House 2a	Bowmen House 2b	Bowmen House 2c	Bowmen House	3a men Hous	men Housi	nced Tur	esign ande	sign and Build it b
		130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA	13053CB	13053CC 1	130538X	21010GA 2	1010GB
		17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17999	17999
	Focus Area Knowledge and Skills (CTE standards)	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									Yes	Yes		Yes	Yes			
	safely in the workplace.								Yes	Yes		Yes	Yes	·		
AC-MO 2	safely in the workplace.								Yes	Yes		Yes	Yes			
AC-MO 2 AC-MO 3	safely in the workplace. COMO02 Use troubleshooting procedures when solving a maintenance problem to maintain buildings and structures.								Yes	Yes		Yes	Yes			
	safely in the workplace. COMO02 Use troubleshooting procedures when solving a maintenance problem to maintain buildings and structures. COMO03 Apply construction skills when repairing, restoring, or renovating existing structures.								Yes	Yes		Yes	Yes			
AC-MO 3	safely in the workplace. COMO02 Use troubleshooting procedures when solving a maintenance problem to maintain buildings and structures. COMO03 Apply construction skills when repairing, restoring, or renovating existing structures. COMO04 Determine work required to repair or renovate an existing building or structure.								Yes	Yes		Yes	Yes			
AC-MO 3	COMO02 Safely in the workplace. COMO02 Use troubleshooting procedures when solving a maintenance problem to maintain buildings and structures. COMO03 Apply construction skills when repairing, restoring, or renovating existing structures. COMO04 Determine work required to repair or renovate an existing building or structure. COMO05 Plan and practice preventative maintenance activities to service existing structures.								Yes	Yes		Yes	Yes			

Skills-to-Course Matrix

Construction
Sherwood High School
Portland Community College
Mar-19

Masonry Focus Area

		<u>Masonry</u> Focus Area																
		e Program of Study name above. 2) Enter your high school																
name. 3) E	inter the comm	nunity college name. 4) Enter the date. 5) Click on the cell for																
Course 1 N	ame, Course 2	2 Name, etc., and replace with your POS course names																
secondary a	and first year of	f post-secondary. 6) Enter school course numbers. 7) Enter																
NCES code	e for the course	e (secondary only). 8) Enter number of credits awarded. 9)																
		t trigger the TSA for this POS. 10) Finally, check those																
		with intent and purpose, and are assessed in each course.																
		Area tabs below are included for those POSs that have a very																
	•	e using those skill sets for multiple options in a Progam of																
		e another set of industry validated standards.	Woods 1	Furniture/Cabinetry	wanced Woods Proi	enced Woods Proje	CTE Apprentice	Bowmen House 1	Bowmen House 2a	Bowmen House 2b	Bowmen House 2c	Bowmen House 3	a Bowmen House 3b	Bowmen House	Bc Advanced Turn	indesign a	nesign and	Build it
Otady of It	you want to asc	dilothor set of industry validated standards.	130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA	13053CB	13053CC	130538X	<u> </u>	A 21010GB	
			17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17999	17999	
	Focus Area	a Knowledge and Skills (CTE standards)	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							•	•	Yes	Yes	•	Yes	Yes		'		
	ACMS01	Understand safe use of equipment in elevated masonry work.										х	x	x				
	ACMS02	Perform appropriate construction inspection and quality control.										х	x	X				
	ACMS03	Understand the safe use of equipment and materials in high-rise construction work.																
	ACMS04	Use appropriate masonry tools and equipment.										х	x	X				
	ACMS05	Understand the components of mortar and how to mix those components properly.																
	ACMS06	Understand masonry units and installation techniques.																
	ACMS07	Apply masonry techniques to residential construction.										х	x	X				
	ACMS08	Understand and use appropriate techniques for reinforced masonry.																
	ACMS09	Understand how metal work is used in masonry.																
	ACMS10	Apply advanced masonry laying techniques.																
	ACMS11	Understand the relationships between masonry construction techniques and moisture control.																
	ACMS12	Apply appropriate masonry construction techniques to a variety of materials and conditions.	_															
	ACMS13	Repair and restore masonry structures.																

Skills-to-Course Matrix

Construction
Sherwood High School
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Plumbing Focus Area

Plumbing Focus Area															
nstructions: 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 namessecondary and first															
vear 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															
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sets for multiple options in a Progam of Study or if you want to use another set of industry															
validated standards.	Woods 1	Furniture/Cabinetry	vanced Woods Proje	eanced Woods Projec	CTE Apprentice	Bowmen House 1	Bowmen House 2a	Bowmen House 2b	Bowmen House 2c	Bowmen House	3a men Hous	men Hous	anced Tur	Design and	design a
dilution of infantaci	130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA		13053CC			
	17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17999	17999
Focus Area Knowledge and Skills (CTE standards)	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		•					•	Yes	Yes		Yes	Yes			
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.															
• •															

Skills-to-Course Matrix

Construction
Sherwood High School
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ACRE21 ACRE22

Residential Electric Focus Area

Understand requirements for raceway, box, and fitting fill.

Understand the purpose and function of lamps, ballasts, and their

Understand requirements for wiring devices.

ACRE25 Use appropriate wiring methods for hazardous locations.

ACRE27 Identify and install heat tracing and freeze protection systems.

ACRE23 Understand and inspect distribution equipment.

components.

ACRE26 Identify practical lighting requirements.

ACRE28 Complete high voltage terminations and splices.

	Res	sidential Electric Focus Area																
Instruc	tions: 1) Enter the	e Program of Study name above. 2) Enter your high school name.													1			
3) Ente	r the community o	college name. 4) Enter the date. 5) Click on the cell for Course 1											1		, I	1	1	
Name,	Course 2 Name,	etc., and replace with your POS course namessecondary and											1		,	1		
first yea	ar of post-seconda	ary. 6) Enter school course numbers. 7) Enter NCES code for the											1		,	1		
course	(secondary only).	8) Enter number of credits awarded. 9) Identify those courses that											1		,	1		
trigger	the TSA for this P	OS. 10) Finally, check those standards that are taught with intent											1		,	1		
and pur	rpose, and are <u>as</u> :	sessed in each course. Note: The optional Focus Area tabs below											1		,	1		
are incl	uded for those PC	OSs that have a very specific industry fociusare using those skill											1		,	1		
sets for	multiple options i	in a Progam of Study or if you want to use another set of industry											1		,	1		
validate	ed standards.		Woods 1	Furniture/Cabinetry	vanced Woods Proj	eanced Woods Projec	CTE Apprentice	Bowmen House 1	Bowmen House 2a	Bowmen House 2b	Bowmen House 2c	Bowmen House 3a	men Housm	nen Hous	anced Tur	Design and	esign and	Build it b
			130531x	13053FX	130533x	130357x	17006CW	13053AA	13053BA	13053BB	13053BC	13053CA	13053CB 1	13053CC	130538X	21010GA	21010GB	1
			17006	17003	17003	17006	17006	17003	17002	17002	17002	17006	17006	17006	17006	17999	17999	1
	Focus A	rea Knowledge and Skills (CTE standards)	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
сстс*		KS Statement		•	•	•	•	•	•	Yes	Yes	•	Yes	Yes				
	ACRE01	Apply electrical theory to circuits including concepts of alternating current.]					
	ACRE02	Use electrical test equipment.											7					
	ACRE03	Understand how to use the National Electrical Code®											7					
	ACRE04	Prepare electrical conduit for installation.]					
	ACRE05	Indentify and Install fasteners and anchors.]					
	ACRE06	Install raceways, boxes, cable trays, and fittings.											<u> </u>					
	ACRE07	Install Conductors											1					
	ACRE08	Read and understand electrical blueprints.											1					
	ACRE09	Install wiring in switches and enclosures in commercial settings.																
	ACRE10	Install wiring in residential settings.																
	ACRE11	Understand the principles of grounding.											4					
	ACRE12	Install boxes and fittings.											4					
	ACRE13	Prepare conductor terminations and splices. Install electrical services.											4					
	ACRE14												4					
		Understand circuit breakers and fuses. Understand contactors and relays.		+									+					
		Install electric lighting											1					
	ACRE18	Calculate loads for branch and feeder circuits.											+					
	ACRE19	Select appropriate conductors.											+					
		Determine appropriate overcurrent protection.						 					┪					
	, .51 (220	=		+	+	+	!	+	+	+	.	+	4					

Skills-to-Course Matrix

Construction
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	Sh	eet Metal/HVAC Focus Area																
3) Entinuation Name year of course trigger and pure inconstructions.	er the community Course 2 Name, post-secondary. (secondary only) the TSA for this Farpose, and are as	ne Program of Study name above. 2) Enter your high school name. college name. 4) Enter the date. 5) Click on the cell for Course 1, etc., and replace with your POS course namessecondary and first 6) Enter school course numbers. 7) Enter NCES code for the 9. 8) Enter number of credits awarded. 9) Identify those courses that POS. 10) Finally, check those standards that are taught with intent essessed in each course. Note: The optional Focus Area tabs below POSs that have a very specific industry fociusare using those skill in a Progam of Study or if you want to use another set of industry	Woods 1	Furniture/Cabinetry	yvanced Woods Proj	eanced Woods Projeq	CTE Apprentice	Bowmen House 1	Bowmen House 2a	Bowmen House 2b	Bowmen House 2d	: Bowmen House	3a men Hous	men Hous	anced Tur)	esign and	esign and	Build it
			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		17999	17999	
	Focus A	Area Knowledge and Skills (CTE standards)	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	
ССТС		KS Statement			•			•	1	Yes	Yes	•	Yes	Yes	<u> </u>			
	ACSM01	Understand the safe use of equipment and tools used in sheet metal and HVAC.																
	ACSM02	Perform proper piping practices.						<u> </u>				1	-					
	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.											7					