

2019

Skills-to-Course Matrix

Automotive Technology

St. Helens High School
Portland Community College
Mar-19

Auto and Heavy Equip. Technology Cluster

Knowledge and Skills

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.

CCTC*	Code Number	KS Statement	Auto-Tech 1	Auto-Tech 2	Auto-Tech 3	Auto-Tech 4	[Course 5 Name]	[Course 6 Name]	[Course 7 Name]	[Course 8 Name]	[Course 9 Name]	[Course 10 Name]
			201031 / 201032	201041 / 201042	201051	201052	[Course Number]	[Course Number]	[Course Number]	[Course Number]	[Course Number]	[Course Number]
Cluster Knowledge and Skills (CTE standards)			20103	20104	20105	20105	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]
			1	1	2	2	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]
			N	N	Y	Y	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]
	AH01 -	Use Mathematics in the service and repair of automobiles or heavy equipment.	x	x	x	x						
	AH02	- Understand the application of the principles of science used in modern automobiles or heavy equipment.	x	x	x	x						
	AH03	- Use communication skills to service and repair automobiles or heavy equipment.	x	x	x	x						
	AH04	- Identify and use sources of service information used in the service and repair of automobiles or heavy equipment.	x	x	x	x						
	AH05	- Use vehicle identification information in the service and repair of automobiles or heavy equipment.	x	x	x	x						
	AH06	- Use problem solving and critical thinking skills when diagnosing, servicing, and repairing automobiles or heavy equipment.	x	x	x	x						
	AH07	- Use information technology (IT) resources for the repair and service of automobiles or heavy equipment.		x	x	x						
	AH08	- Describe the concept of multiple components connected and operating in a system.	x	x	x	x						
	AH09	- Describe the design and operation of the systems and subsystems in modern automobiles or heavy equipment.		x	x	x						
	AH10	- Develop and practice safe working habits while servicing and repairing automobiles or heavy equipment.	x	x	x	x						
	AH11	- Develop and practice EPA (Environmental Protection Agency) acceptable practices when dealing with hazardous and nonhazardous wastes in the service and repair of automobiles or heavy equipment.	x	x	x	x						
	AH12	- Practice leadership traits and habits in the workplace.	x	x	x	x						
	AH13	- Demonstrate teamwork in the service and repair of automobiles or heavy equipment.	x	x	x	x						
	AH14	Understand and practice ethical work habits when working with customers, managers, and peers in the service and repair of automobiles or heavy equipment.	x	x	x	x						
	AH15	Follow legal responsibilities when working with safety systems on automobiles or heavy equipment.		x	x	x						
	AH16	Understand legal driving requirements in the repair and service of automobiles or heavy equipment.			x	x						
	AH17	Understand the liability issues related to repairs made to customer's automobiles or heavy equipment.		x	x	x						
	AH18	Develop materials and practice the skills necessary for successful employment interviews.			x	x						
	AH19	Describe various workplace characteristics of automotive or heavy equipment related career areas.			x	x						
	AH20	Describe potential career advancement opportunities for automotive or heavy equipment careers.	x	x	x	x						
	AH21	Demonstrate the safe and proper use of tools needed for the service and repair of automobiles or heavy equipment.	x	x	x	x						
	AH22	Practice professionalism with customers' vehicles or equipment during the service of automobiles or heavy equipment.	x	x	x	x						

AH23	Identify the different payment systems for employee pay and customer billing in the service and repair of automobiles or heavy equipment.	x	x
AH24	Analyze tool costs related to the service and repair of automobiles or heavy equipment.	x	x

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Automotive Service Technology 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.

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			201031 / 201032	201041 / 201042	201051	201052	[Course Number]	[Course Number]	[Course Number]	[Course Number]	[Course Number]	[Course Number]
Focus Area Knowledge and Skills (CTE standards)			20103	20104	20105	20105	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]	[NCES Code]
			1	1	2	2	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]	[# of Credits]
			N	N	Y	N	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]	[TSA--Y or N?]
	AHAS01	Perform Lube, Oil, and Filter (LOF) and preventive maintenance needed for entry level employment of the <u>automobile service and repair field</u> .		X	X	X						
	AHAS02	Perform skills and determine necessary actions needed in the automatic transmission area of automotive service and repair.				X						
	AHAS03	Perform skills and determine necessary actions needed in the manual drive train and axles area of automotive service and repair.			X	X						
	AHAS04	Perform skills and determine necessary actions needed in the suspension and steering area of automotive service and repair.			X	X						
	AHAS05	Perform skills and determine necessary actions needed in the <u>brakes area of automotive service and repair</u> .		X	X	X						
	AHAS06	Perform skills and determine necessary actions needed in the <u>electrical/electronic systems area of automotive service and repair</u> .		X	X	X						
	AHAS07	Perform skills and determine necessary actions needed in the engine performance area of automotive service and repair.			X	X						
	AHAS09	Perform skills and determine necessary actions needed in the <u>engine repair area of automotive service and repair</u> .	X		X	X						
	AHAS10	Perform skills and determine necessary actions needed in the heating and air conditioning area of automotive service and repair.				X						
	AHAS11	Perform specialized skills and determine necessary actions needed in the automatic transmission area of automotive service and repair.				X						
	AHAS12	Perform specialized skills and determine necessary actions needed in the manual drive train and axles area of automotive service and repair.				X						
	AHAS13	Perform specialized skills and determine necessary actions needed in the engine repair area of automotive service and repair.				X						