

High School Name:

Community College Name: Portland Community College
CTE Program of Study Name: Automotive Technology
Date: 12/1/2016

Automotive Service Technology Focus

Area

Skills-to-Course Matrix

Instructions: 1) 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

Focus Area Knowledge and Skills (CTE standards) TSA? TSA? CCTC code Numbe **KS Statement** TSA? TSA? TSA? TSA? AHAS01 Perform Lube, Oil, and Filter (LOF) and preventive maintenance needed for entry level employment of the automobile service and AHAS02 Perform skills and determine necessary actions needed in the automatic transmission area of automotive service and repair. AHAS03 Perform skills and determine necessary actions needed in the manual drive train and axles area of automotive service and repair. AHAS04 Perform skills and determine necessary actions needed in the suspension and steering area of automotive service and repair. AHAS05 Perform skills and determine necessary actions needed in the brakes area of automotive service X AHAS06 Perform skills and determine necessary actions AHAS07 Perform skills and determine necessary actions needed in the engine performance area of automotive service and repair. AHAS09 Perform skills and determine necessary actions needed in the engine repair area of automotive AHAS10 Perform skills and determine necessary actions needed in the heating and air conditioning area of automotive service and repair. AHAS11 Perform specialized skills and determine necessary actions needed in the automatic transmission area of automotive service and AHAS12 Perform specialized skills and determine necessary actions needed in the manual drive train and axles area of automotive service and AHAS13 Perform specialized skills and determine necessary actions needed in the engine repair area of automotive service and repair.

High School Name:

Date:

Community College Name: CTE Program of Study Name:

Portland Community College Automotive Technology 12/1/2016

Collision Repair & Refinishing Focus Area

2016

Skills-to-Course Matrix

Instructions: 1) 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)

<u>Fo</u>	cus Area	Knowledge and Skills (CTE standards)	WW 100	AM 111	AM 161	AM 151	AMIAI	WW 7255	AM 171	AM 181	AM 131	AM 121	AM 201
ССТС	ode Numbe		TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?
	AHRR01	Conduct frame inspection and repair.											
	AHRR02	Conduct unibody and unitized structure inspection,											
		measurement, and repair.											
	AHRR03	Remove and install fixed glass.											
	AHRR04	Conduct metal welding an cutting for structural damage repair.											
	AHRR05	Prepare body components for non-structural damage repair.											
	AHRR06	Conduct outer body panel repairs, replacements, and adjustments.											
	AHRR07	Conduct metal finishing and body filling.											
	AHRR08	Inspect and repair moveable glass and hardware.											
	AHRR09	Conduct metal welding and cutting for non-structural damage repair.											
	AHRR10	Repair and replace plastics.											
	AHRR11	Repair or replace suspension and steering components.											
	AHRR12	Repair or replace electrical components.											
	AHRR13	Repair or replace brakes.											
	AHRR14	Repair or replace heating and air conditioning components.											
	AHRR15	Repair or replace cooling systems.											
	AHRR16	Repair or replace drive train components.											
	AHRR17	Repair or replace fuel, intake, and exhaust system components.											
	AHRR18	Inspect and replace restraint systems.											
	AHRR19	Understand safety precautions related to painting and refinishing.											
	AHRR20	Conduct surface preparation for painting and refinishing.											
	AHRR21	Understand proper operation of spray guns and related equipment.											
	AHRR22	Mix, match, and apply paint.											
	AHRR23	Understand causes and cures associated with paint defects.											
	AHRR24	Conduct final detailing related to painting and refinishing.											

High School Name: Community College Name: CTE Program of Study Name: Date:

Portland Community College Automotive Technology 12/1/2016

Heavy Equipment Service Technology

Focus Area

Skills-to-Course Matrix

2016

Instructions: 1) 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

CCTC Code Num	be KS Statement	EM 100	E.	AM 161	AM 151	AMIAI	Phy 165		AN'	AM		AN 201
	Conduct general inspection, maintenance, and	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?	TSA?
TRHV02	repair on diesel engines. Conduct cylinder head and valve train											
TRHV03] , ,											
TRHV04	, , , , , , , , , , , , , , , , , , ,											
TRHVO	9 9 1											
TRHVO												
TRHVO	inspection, maintenance, and repair on diesel Conduct fuel supply system inspection, maintenance, and repair on diesel engines.											
TRHV08	inspection, maintenance, and repair on diesel							_				
TRHV10	and repair on diesel engines.											
TRHV1	repair on medium and heavy trucks.											
TRHV12	and repair on medium and heavy trucks. Conduct driveshaft and universal joint											
TRHV1:	' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '											
TRHV14	113											
TRHV15	•											
TRHV16	maintenance, and repair on truck air brakes. Conduct parking brake inspection, maintenance, and repair on truck air brakes.											
TRHV1												
TRHV18	maintenance, and repair on truck hydraulic											
TRHV19	maintenance, and repair on truck hydraulic											
TRHV20	inspection, maintenance, and repair on truck											
TRHV2	maintenance, and repair on medium and heavy											
TRHV2	maintenance, and repair on medium and heavy Conduct steering unit inspection, maintenance,											
TRHV24	and repair on medium and heavy trucks. Conduct steering linkage inspection, maintenance, and repair on medium and heavy											
TRHV25												
TRHV2												
TRHV2	medium and heavy trucks.											
TRHV28	maintenance, and repair on medium and heavy											
TRHV29	maintenance, and repair on medium and heavy											
TRHV30	repair on medium and heavy trucks.											
TRHV3	maintenance, and repair on medium and heavy Conduct charging system diagnosis and repair											
TRHV3:	3 3 3 1											
TRHV34												
TRHV35	<u> </u>											
TRHV36	maintenance, and repair on medium and heavy Conduct general HVAC system inspection, maintenance, and repair on medium and heavy											
TRHV3												
TRHV38												
TRHV3		_										
TRHV40												
TRHV4	Conduct HVAC electrical operating system inspection, maintenance, and repair on medium											
TRHV42	Conduct HVAC air/mechanical operating system inspection, maintenance, and repair on medium											
TRHV43	and heavy trucks. Conduct refrigerant recovery, recycling, and handling in accordance with appropriate EPA											