	High School Graduation Years 2019, 2020 and 2021		
Unit/Standard Number	Autobody/Collision and Repair Technology/Technician CIP 47.0603 Task Grid	Proficiency Level Achieved: (X) Indicates Competency Achieved to Industry Proficiency Level	
	Secondary Competency Task List		
	SAFETY		
	Follow general shop safety rules.		
	Use of personal safety devices and clothing. Locate and identify fire extinguishers.		
	Locate and operate emergency switches.		
	Explain fire and tornado drill procedures.		
	Demonstrate proper handling of hazardous materials.		
	Follow proper chemical disposal techniques.		
	Operate shop and spray area ventilation systems. Follow rules for care and safe use of hand tools.		
	Demonstrate safe and proper use of power tools and equipment.		
	Identify the proper methods and options for safely moving vehicles in the shop area.		
	Identify information on Safety Data Sheets (SDS).		
	VELVOLE DEGLOVAND CONCERNOS		
	VEHICLE DESIGN AND CONSTRUCTION		
	Identify the differences between various vehicle construction types. Identify and describe structural and nonstructural panels of a unibody vehicle.		
	Determine the various materials used in vehicle construction.		
	PANEL REPLACEMENT AND ALIGNMENT		
	Identify the principles of full or partial panel replacement (bonded, bolted, or welded).		
	Remove, reinstall, and align bolt on panels. Remove and reinstall wheel/tire assembly.		
	Aim headlights using mechanical aiming equipment.		
	RESERVED		
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	TRIM AND HARDWARE RESERVED		
-	Determine types of fasteners.		
	Remove and replace adhesive-held molding and trim.		
	Remove and install seats.		
	RESERVED		
	Remove and install interior parts and hardware. Remove and install exterior parts and hardware.		
	Remove and install exterior trim, moldings, and emblems.		
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500	METAL FINISHING		
	Select proper metal straightening tools.		
	Evaluate stretched metal for repair.		
	Demonstrate weld-on nail gun to repair sheet metal. Repair metal to meet industry standards.		
304	Trepair metal to meet industry standards.		
	BODY FILLERS		
	Select correct body filler and tools.		
	Prepare surface for body filler. Mix and apply body filler.		
	Sand body fillers to correct contour.		
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700	GLASS AND HARDWARE		
	Remove and reinstall a door window regulator.		
	Remove and reinstall moveable door glass.		
703	Describe the removal and replacement of stationary glass.		
800	STRUCTURAL COMPONENT REPAIR AND DAMAGE ANALYSIS		
801	Classify the various types structural damage a vehicle can sustain.		
	Interpret body dimension specifications.		
	Use a tram gauge to diagnose vehicle length and width damage.		
	Diagnose vehicle height with datum line gauges. Identify various measuring systems.		
	Identify various measuring systems. Identify repair methods for vehicle with diamond damage, twist, sag side swag or mash.		
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900	STRUCTURAL STRAIGHTENING		

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901	Mount and anchor vehicle to a pulling system.	
902	Prepare vehicle for measuring and analysis.	
903	Prepare vehicle for structural alignment.	
	- repair verification of detailed anguinoria	
	CORROSION PROTECTION	
1001	Identify corrosion causes and OEM corrosion protection.	
1002	Apply repair methods for corrosion protection.	
	RESERVED	
1004	Demonstrate the application of seam sealers.	
1100	WELDING	
1101	Identify different methods of attaching components (MIG welding, squeeze type resistance spot welding (STRSW) riveting, structural	
	Demonstrate personal safety practices.	
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	Set up and tune the MIG welder.	
1104	Complete a butt joint with backing in various welding positions.	
1105	Comptete an overlap weld in various positions.	
1106	Complete a plug weld in various positions.	
1107	Define protection of adjacent panels, glass, vehicle interior, etc. from welding and cutting operations.	
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1200	CUTTING PROCESSES	
1201	Identify cutting processes.	
	Demonstrate sheet metal cutting processes.	
1202	Some state short metal outling processes.	
	SURFACE PREPARATION, REFINISHING, AND EQUIPMENT	
1301	Explain various environmental regulations.	
	Locate hazardous warning information.	
	Select and inspect personal protection equipment (PPE).	
	Demonstrate safe painting practices.	
1305	Identify personal health and safety hazards.	
1400	AUTOMOTIVE FINISHES	
1401	Describe the difference between paint systems.	
1402	Describe paint defects - causes and cures.	
1403	Identify various undercoats.	
1404	Identify various topcoats (single stage, basecoat/clearcoat, tricoat, quadcoat).	
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	SURFACE PREPARATION	
1501	Demonstrate proper steps to pre-wash entire vehicle.	
1502	Use wax and grease remover.	
	Demonstrate proper use of sanding and featheredging techniques.	
	Wet sand and featheredge.	
1505	Apply suitable metal treatments.	
1506	Obtain the vehicle paint code.	
1507	Apply undercoats.	
	Prepare panels for blending.	
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1509	RESERVED	
1510	Identify masking materials.	
1511	Perform masking.	
	Select the appropriate abrasive.	
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	REFINISHING EQUIPMENT AND PAINT AREA	
1601	Operate the spray booth.	
1602	Maintain the paint mixing area.	
	Set up, test and adjust spray guns.	
	Inspect, clean, and determine conditions of spray guns and equipment.	
1605	Select and use the National Institution of Safety and Health (NIOSH) approve personal painting/refinishing respirator systems.	
1700	REFINISHING OPERATIONS	
	Prepare surface for topcoat system (degrease and tack).	
	Apply primer-sealer.	
1703	Apply single-stage finish.	
	Apply basecoat/clearcoat finish.	
	Describe the application of stone chip-resistant coating to lower body areas.	
1700	positive the application of storic empression coating to lower body areas.	
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	BLENDING OPERATIONS	
1801	RESERVED	
	Blend basecoat/clearcoat finish.	
1803	Tint and blend color coat.	
1900	DETAILING	
	Remove overspray.	
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	Clean exterior of vehicle.	
1903	Clean interior of vehicle.	
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1904	Apply decals and stripes.	
	Apply decais and stripes. Demonstrate color sanding and polishing techniques.	

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1906	Clean body openings.	
1907	Clean exterior and interior glass surfaces.	
2000	ESTIMATING DAMAGE ANALYSIS	
2001	Identify vehicle by VIN (vehicle identification number).	
2002	Collect vehicle and customer data.	
2003	Use collision estimating guides.	
2004	Identify different types of vehicle damage (direct and indirect).	
2005	Indicate repair and replace decisions.	
2006	Prepare an estimate/repair sequence/calculate repair costs.	
2100	PLASTIC REPAIR	
2101	Identify plastic to make repair decisions.	
2102	Use plastic repair methods (adhesives and welding).	
2103	Repair plastics with two-part adhesives, with and without reinforcement.	
2200	RESTRAINT SYSTEMS	
2201	Research auto manufacturers' recommended safety procedures to prevent accidental deployment of supplemental restraint systems.	
2202	Identify supplemental restraint systems.	
2203	Remove and reinstall seat belt components.	

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