

**Competency Task List – Secondary Component**  
**Autobody/Collision and Repair Technology/Technician CIP 47.0603**  
**High School Graduation Years 2022, 2023, 2024**

**100 Safety**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
101	Follow general shop safety rules.		
102	Use of personal safety devices and clothing.		
103	Locate and identify fire extinguishers.		
104	Locate and operate emergency switches.		
105	Explain fire and tornado drill procedures.		
106	Demonstrate proper handling of hazardous materials.		
107	Follow proper chemical disposal techniques.		
108	Operate shop and spray area ventilation systems.		
109	Identify and follow rules for care and safe use of hand tools.		
110	Identify and demonstrate safe and proper use of power tools and equipment.		
111	Identify the proper methods and options for safely moving vehicles in the shop area.		
112	Identify information on Safety Data Sheets (SDS).		
113	Demonstrate the ability to secure vehicles on jack stands and/or hydraulic lifts.		

**200 Vehicle Design and Construction**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
201	Identify the differences between various vehicle construction types.		

202	Identify and describe structural and nonstructural panels of a unibody vehicle.		
203	Determine the various materials used in vehicle construction.		

### 300 Panel Replacement and Alignment

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
301	Identify the principles of full or partial panel replacement (bonded, bolted, welded, or riveted).		
302	Remove, reinstall, and align bolt on panels.		
303	Remove and reinstall wheel/tire assembly.		
304	Aim headlights using mechanical aiming equipment.		
305	RESERVED		

### 400 Trim and Hardware

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
401	RESERVED		
402	Determine types of fasteners.		
403	Remove and replace adhesive-held molding and trim.		
404	Remove and install seats.		
405	RESERVED		
406	Remove and install interior parts and hardware.		
407	Remove and install exterior parts and hardware.		
408	Remove and install exterior trim, moldings, and emblems.		

**500 Metal Finishing**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
501	Select proper metal straightening tools.		
502	Evaluate stretched metal for repair.		
503	Demonstrate weld-on nail gun to repair sheet metal.		
504	Repair metal to meet industry standards.		
505	Explain the characteristics of aluminum repair and tools required.		

**600 Body Fillers**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
601	Select correct body filler and tools.		
602	Prepare surface for body filler.		
603	Mix and apply body filler.		
604	Sand body fillers to correct contour.		

**700 Glass and Hardware**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
701	Remove and reinstall a door window regulator.		
702	Remove and reinstall moveable door glass.		
703	Describe the removal and replacement of stationary glass.		

**800 Structural Component Repair and Damage Analysis**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
801	Classify the various types structural damage a vehicle can sustain.		
802	Interpret body dimension specifications.		
803	Use a tram gauge to diagnose vehicle length and width damage and X measurements of body or frame.		
804	Diagnose vehicle height with datum line gauges.		
805	Identify various measuring systems.		
806	Identify repair methods for vehicle with diamond damage, twist, sag side swag, or mash.		

**900 Structural Straightening**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
901	Mount and anchor vehicle to a pulling system.		
902	Measure vehicle structure and analyze data.		
903	Interpret data to make a structural pull back to factory specs.		

**1000 Corrosion Protection**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
1001	Identify corrosion causes and OEM corrosion protection.		
1002	Apply repair methods for corrosion protection.		
1003	RESERVED		
1004	Demonstrate the application of seam sealers.		

### 1100 Welding

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
1101	Identify different methods of attaching components (MIG welding, squeeze type resistance spot welding (STRSW), structural adhesive, silicon bronze, etc.)		
1102	Demonstrate personal safety practices.		
1103	Set up and tune the MIG welder.		
1104	Complete a butt joint with backing in various welding positions.		
1105	Complete 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.		

### 1200 Cutting Processes

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
1201	Identify cutting processes.		
1202	Demonstrate sheet metal cutting processes.		

### 1300 Refinishing and Equipment Safety

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
1301	Explain various environmental regulations.		
1302	Locate hazardous warning information.		
1303	Select and inspect personal protection equipment (PPE).		
1304	Demonstrate safe painting practices.		
1305	Identify personal health and safety hazards.		

**1400 Automotive Finishes**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
1401	Describe the difference between paint systems (water borne, solvent, multi-stage).		
1402	Describe causes and cures of paint defects.		
1403	Identify various undercoats.		
1404	Identify various topcoats (single stage, basecoat/clearcoat, tricoat, quadcoat).		

**1500 Surface Preparation**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
1501	Demonstrate proper steps to pre-wash entire vehicle.		
1502	Use wax and grease remover.		
1503	Demonstrate proper use of sanding and featheredging techniques.		
1504	Wet, sand, and featheredge.		
1505	RESERVED		
1506	Locate and obtain the vehicle paint code.		
1507	Apply undercoats.		
1508	Prepare panels for blending.		
1509	RESERVED		
1510	Identify masking materials.		
1511	Perform masking.		
1512	Select the appropriate abrasive.		

**1600 Refinishing Equipment and Paint Area**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
1601	Operate the spray booth.		
1602	Maintain the paint mixing area.		
1603	Set up, test, and adjust spray guns.		
1604	Inspect, clean, and determine conditions of spray guns and equipment.		
1605	Select and use the National Institution of Safety and Health (NIOSH) approved personal painting/refinishing respirator system.		

**1700 Refinishing Operations**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
1701	Prepare surface for topcoat system (degrease and tack).		
1702	Apply primer-sealer.		
1703	Apply single-stage finish.		
1704	Apply basecoat/clearcoat finish.		
1705	Describe the application of stone chip-resistant coating to lower body areas.		
1706	Demonstrate paint manufacturer's mixing ratio when preparing paint products.		

**1800 Blending Operations**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
1801	RESERVED		
1802	Blend basecoat/clearcoat finish.		
1803	Tint and blend color coat.		

**1900 Detailing**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
1901	Remove overspray.		
1902	Clean exterior of vehicle.		
1903	Clean interior of vehicle.		
1904	Apply decals and stripes.		
1905	Demonstrate color sanding and polishing techniques.		
1906	Clean body openings.		
1907	Clean exterior and interior glass surfaces.		

**2000 Estimating Damage Analysis**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
2001	Identify vehicle by vehicle identification number (VIN).		
2002	Collect vehicle and customer data.		
2003	Use collision estimating guides/estimating software.		
2004	Identify different types of vehicle damage (direct and indirect).		
2005	Indicate repair and replace decisions.		
2006	Prepare an estimate/repair and sequence/calculate repair costs/supplements.		
2007	Explain the need for a pre-repair scan and post-repair scan of the vehicle computer.		

**2100 Plastic Repair**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
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.		
2104	Research recommended repair processes for bumper cover repair on Advance Driver Assistance System (ADAS) vehicles.		

**2200 Restraint Systems**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
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.		

**2300 Advanced Technology**

Item	Task	(X) Indicates Proficiency <sup>1</sup>	Secondary Course Crosswalk
2301	Explain function and components of the Advance Driver Assistance System (ADAS).		
2302	Describe precautions required when working on high voltage vehicles.		

<sup>1</sup> Student Demonstrated Entry-Level Industry Proficiency as Indicated by (X)

Secondary CTE Instructor Signature \_\_\_\_\_ Date \_\_\_\_\_

Student Signature \_\_\_\_\_ Date \_\_\_\_\_