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OFFICIAL PROGRAM STANDARDS NOTIFICATION (OPSN)

Issued: June 26, 2020

Program: Motor Vehicle Body Repairer (Metal and Paint) (Automotive Collision Repair Technician)

To: ITA Training Providers
Articulation Chair
System Liaison Person
Youth Train in Trades School Districts

Subject: **Motor Vehicle Body Repairer (Metal and Paint) (Automotive Collision Repair Technician)**

OPSN No.: **OPSN 2020 005**

Effective Date: April 1, 2021

Summary of Change: Please be advised that a new Program Outline and Program Profile have been posted to the Industry Training Authority (ITA) website at https://www.itabc.ca/program/motor-vehicle-body-repairer-metal-and-paint-automotive-collision-repair-technician.

Details: The following changes have been made to the Collision program in BC:

Trade Name: Auto Body and Collision Technician

Credentialing Model:

- Common Core Level 1 to serve both the Collision and Refinishing programs
- Addition of Level 4 for the Collision program

Occupational Analysis Chart (OAC): aligned to the Red Seal Occupational Standard (RSOS) and the harmonized sequencing of topics across training levels.

Increased Duration of Technical Training:

	Current	Harmonized	Difference
Level 1	150 hours	210 hours (Common Core with Refinishing)	Increase of 60 hours
Level 2	150 hours	180 hours	Increase of 30 hours
Level 3	180 hours	180 hours	No Change
Level 4	N/A	180 Hours	Increase of 180 hours
Total	480 hours	750 hours	**Increase of 270 hours**

Work-based Training Hours (WBT): decrease of 300 hours

Foundation Program changes include

Program Title: Automotive Collision and Refinishing Foundation Program.

Credentials Awarded:

- Auto Body and Collision Technician – Certificate of Completion
- Automotive Refinishing Technician – Certificate of Completion

Foundation Program Credit toward Apprenticeship:

- Common Core Level 1 Technical Training
- 625 hours toward Auto Body and Collision Technician
- 450 hours toward Automotive Refinishing Technician

Program Duration:

FDN program	MVBR Only	Combined with Refinishing	Increase of 120 hours (4 weeks)
	900 hours (30 weeks)	1,020 hours (34 weeks)	

For more details, please refer to the Harmonized Program Outline and Program Profile posted to the webpage.

Note: The competency migration summary and details are provided below.

Rationale:

The Motor Vehicle Body Repairer (Metal and Paint) National Occupational Analysis (NOA, 2014) was reviewed and updated as part of the pan-Canadian Harmonization Initiative. After a series of consultations, workshops and webinars, a new Red Seal Occupational Standard (RSOS, 2018) was developed to replace the NOA. The revised RSOS and the final harmonization recommendations prompted a full program review in BC.

Attachments:

Auto Body and Collision Technician Program Outline Review Details

This attachment provides details of the revisions made to the Auto Body and Collision Technician Program Outline during the review process.

For more information contact:

Program Standards
email: programstandards@itabc.ca

cc:

All Staff

Auto Body and Collision Technician Program Outline Review Details

Key

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CL = Current Level
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Summary - Competency Migration

The BC Occupational Analysis Chart (OAC) was aligned to the structure of the Red Seal Occupational Standard (RSOS). Therefore, **all of the competencies have been renamed and restructured**. This chart shows the finalized competency distribution for the Harmonized Auto Body and Collision Technician program. It summarizes the major changes to the competencies. For details, see the charts below.

COLLISION HARMONIZED LEVEL 1 (HL1)		COLLISION HARMONIZED LEVEL 2 (HL2)		COLLISION HARMONIZED LEVEL 3 (HL3)		COLLISION HARMONIZED LEVEL 4 (HL4)	
Line A	**PERFORM SAFETY-RELATED FUNCTIONS**	**Line A**	**PERFORM SAFETY-RELATED FUNCTIONS**	**Line A**	**PERFORM SAFETY-RELATED FUNCTIONS**	**Line A**	**PERFORM SAFETY-RELATED FUNCTIONS**
	A1 Maintain safe work environment						
	A2 Use personal protective equipment (PPE) and safety equipment						
Line B	**USE TOOLS AND EQUIPMENT**	**Line B**	**USE TOOLS AND EQUIPMENT**	**Line B**	**USE TOOLS AND EQUIPMENT**	**Line B**	**USE TOOLS AND EQUIPMENT**
	B1 Maintain hand and power tools						
CL1→HL1/HL2	B2 Use lifting equipment	CL1→HL1/HL2	B2 Use lifting equipment				
	B3 Maintain spray booth						
CL1→HL1/HL2	B4 Maintain spray equipment	CL1→HL1/HL2	B4 Maintain spray equipment				
Only the content in HL2 was new	B5 Maintain mixing equipment	New	B5 Maintain mixing equipment				
	B6 Maintain shop equipment						
	B7 Use curing and drying equipment						
				CL3→HL3/HL4	B8 Maintain frame and unibody repair and measuring equipment	CL3→HL3/HL4	B8 Maintain frame and unibody repair and measuring equipment
				New	B9 Use diagnostic equipment		
Line C	**USE WELDING EQUIPMENT**	**Line C**	**USE WELDING EQUIPMENT**	**Line C**	**USE WELDING EQUIPMENT**	**Line C**	**USE WELDING EQUIPMENT**
	C1 Use cutting and heating						

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	equipment						
	C2 Use welding equipment		C2 Use welding equipment		C2 Use welding equipment		
	C3 Maintain welding equipment		C3 Maintain welding equipment				
Line D	**ORGANIZE WORK AND USE DOCUMENTATION**	**Line D**	**ORGANIZE WORK AND USE DOCUMENTATION**	**Line D**	**ORGANIZE WORK AND USE DOCUMENTATION**	**Line D**	**ORGANIZE WORK AND USE DOCUMENTATION**
	D1 Organize parts, materials and work area		D1 Organize parts, materials and work area				
	D2 Use documentation						
New	D3 Perform inspections						
	D4 Organize productions schedule						
			D5 Prepare repair plan				
				CL3→HL3/HL4	D6 Prepare estimates and supplements	CL3→HL3/HL4	D6 Prepare estimates and supplements
Line E	**USE COMMUNICATION AND MENTORING TECHNIQUES**	**Line E**	**USE COMMUNICATION AND MENTORING TECHNIQUES**	**Line E**	**USE COMMUNICATION AND MENTORING TECHNIQUES**	**Line E**	**USE COMMUNICATION AND MENTORING TECHNIQUES**
New	E1 Use communication techniques						
						New	E2 Use mentoring techniques
Line F	**REMOVE AND INSTALL VEHICLE COMPONENTS**	**Line F**	**REMOVE AND INSTALL VEHICLE COMPONENTS**	**Line F**	**REMOVE AND INSTALL VEHICLE COMPONENTS**	**Line F**	**REMOVE AND INSTALL VEHICLE COMPONENTS**
	F1 Identify vehicle components						
	F2 Remove trim and hardware						
	F3 Install trim and hardware						
Line G	**PREPARE SURFACE**	**Line G**	**PREPARE SURFACE**	**Line G**	**PREPARE SURFACE**	**Line G**	**PREPARE SURFACE**
HL1←CL3	G1 Perform initial preparation						
New	G2 Mask surface						
New	G3 Strip surface						

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	G4 Sand surface						
Line H	**USE REPAIR MATERIALS AND EQUIPMENT**	**Line H**	**USE REPAIR MATERIALS AND EQUIPMENT**	**Line H**	**USE REPAIR MATERIALS AND EQUIPMENT**	**Line H**	**USE REPAIR MATERIALS AND EQUIPMENT**
	H1 Mix repair materials						
Note: Level 1 content didn't move	H2 Prepare spray booth	HL2←CL3	H2 Prepare spray booth				
Note: Level 1 content didn't move	H3 Perform spray gun set up	HL2←CL3	H3 Perform spray gun set up				
	H4 Apply repair materials						
Line I	**APPLY REFINISHING MATERIALS**	**Line I**	**APPLY REFINISHING MATERIALS**	**Line I**	**APPLY REFINISHING MATERIALS**	**Line I**	**APPLY REFINISHING MATERIALS**
HL1/HL2←CL3	I1 Mix refinishing materials	HL1/HL2←CL3	I1 Mix refinishing materials				
HL1/HL2←CL3	I2 Apply primer sealers	HL1/HL2←CL3	I2 Apply primer sealers				
HL1/HL2←CL3	I3 Apply single-stage paint	HL1/HL2←CL3	I3 Apply single-stage paint				
HL1/HL2←CL3	I4 Apply base coat/clear coat	HL1/HL2←CL3	I4 Apply base coat/clear coat				
	Note: I5 appears only in Refinishing Level 2 (not in Collision)						
		HL2←CL3	I6 Perform colour adjustment				
Line J	**PERFORM POST-REFINISHING FUNCTIONS**	**Line J**	**PERFORM POST-REFINISHING FUNCTIONS**	**Line J**	**PERFORM POST-REFINISHING FUNCTIONS**	**Line J**	**PERFORM POST-REFINISHING FUNCTIONS**
	Note: J1 and J3 appear only in Refinishing Level 2 (not in Collision)						
		HL2←CL3	J2 Correct surface imperfections				
Line K	**REMOVE, REPAIR AND INSTALL METAL PANELS AND COMPONENTS**	**Line K**	**REMOVE, REPAIR AND INSTALL METAL PANELS AND COMPONENTS**	**Line K**	**REMOVE, REPAIR AND INSTALL METAL PANELS AND COMPONENTS**	**Line K**	**REMOVE, REPAIR AND INSTALL METAL PANELS AND COMPONENTS**
	K1 Identify fundamentals of		K1 Identify fundamentals				

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	vehicle construction, metal and damage		of vehicle construction, metal and damage				
	K2 Prepare metal panels and components for repair						
	K3 Remove metal panels and components						
	K4 Repair metal panels and components		K4 Repair metal panels and components				
	K5 Install metal panels and components						
Line L	**REMOVE, REPAIR AND INSTALL PLASTIC AND COMPOSITE PANELS AND COMPONENTS**	**Line L**	**REMOVE, REPAIR AND INSTALL PLASTIC AND COMPOSITE PANELS AND COMPONENTS**	**Line L**	**REMOVE, REPAIR AND INSTALL PLASTIC AND COMPOSITE PANELS AND COMPONENTS**	**Line L**	**REMOVE, REPAIR AND INSTALL PLASTIC AND COMPOSITE PANELS AND COMPONENTS**
	L1 Identify fundamentals of plastics and composite panels and components		L1 Identify fundamentals of plastics and composite panels and components				
	L2 Prepare plastic and composite panels and components for repair		L2 Prepare plastic and composite panels and components for repair				
	L3 Remove plastic and composite panels and components		L3 Remove plastic and composite panels and components				
	L4 Repair plastic and composite panels and components		L4 Repair plastic and composite panels and components				
	L5 Install plastic and composite panels and components		L5 Install plastic and composite panels and components				
Line M	**DETAIL EXTERIOR**	**Line M**	**DETAIL EXTERIOR**	**Line M**	**DETAIL EXTERIOR**	**Line M**	**DETAIL EXTERIOR**
HL1←CL3	M1 Remove minor imperfections						

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HL1←CL3	M2 Clean exterior and interior of vehicle						
Line N	**PERFORM FINAL INSPECTIONS**	**Line N**	**PERFORM FINAL INSPECTIONS**	**Line N**	**PERFORM FINAL INSPECTIONS**	**Line N**	**PERFORM FINAL INSPECTIONS**
					N1 Perform final operational check		
						New	N2 Perform final quality control inspections
Line O	**APPLY CORROSION PROTECTION AND SOUND DEADENING MATERIALS**	**Line O**	**APPLY CORROSION PROTECTION AND SOUND DEADENING MATERIALS**	**Line O**	**APPLY CORROSION PROTECTION AND SOUND DEADENING MATERIALS**	**Line O**	**APPLY CORROSION PROTECTION AND SOUND DEADENING MATERIALS**
		HL2←CL3	O1 Apply corrosion inhibitors and undercoats				
			O2 Apply seam sealers and sound deadeners				
Line P	**PREPARE FOR STRUCTURAL REPAIR**	**Line P**	**PREPARE FOR STRUCTURAL REPAIR**	**Line P**	**PREPARE FOR STRUCTURAL REPAIR**	**Line P**	**PREPARE FOR STRUCTURAL REPAIR**
				CL3→HL3/HL4	P1 Identify extent of damage	CL3→HL3/HL4	P1 Identify extent of damage
				CL3→HL3/HL4	P2 Remove components for access	CL3→HL3/HL4	P2 Remove components for access
				CL3→HL3/HL4	P3 Perform vehicle set up	CL3→HL3/HL4	P3 Perform vehicle set up
Line Q	**REMOVE, REPAIR AND INSTALL STRUCTURAL COMPONENTS**	**Line Q**	**REMOVE, REPAIR AND INSTALL STRUCTURAL COMPONENTS**	**Line Q**	**REMOVE, REPAIR AND INSTALL STRUCTURAL COMPONENTS**	**Line Q**	**REMOVE, REPAIR AND INSTALL STRUCTURAL COMPONENTS**
				CL3→HL3/HL4	Q1 Repair structural components	CL3→HL3/HL4	Q1 Repair structural components
					Q2 Remove structural components		
					Q3 Install structural components		

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Line R	**REMOVE, INSTALL AND REPAIR STRUCTURAL AND LAMINATED GLASS**	**Line R**	**REMOVE, INSTALL AND REPAIR STRUCTURAL AND LAMINATED GLASS**	**Line R**	**REMOVE, INSTALL AND REPAIR STRUCTURAL AND LAMINATED GLASS**	**Line R**	**REMOVE, INSTALL AND REPAIR STRUCTURAL AND LAMINATED GLASS**
		CL1→HL2	R1 Remove structural glass				
		CL1→HL2	R2 Install structural glass				
		CL1→HL2	R3 Repair laminated glass				
Line S	**REMOVE AND INSTALL NON-STRUCTURAL GLASS**	**Line S**	**REMOVE AND INSTALL NON-STRUCTURAL GLASS**	**Line S**	**REMOVE AND INSTALL NON-STRUCTURAL GLASS**	**Line S**	**REMOVE AND INSTALL NON-STRUCTURAL GLASS**
		CL1→HL2	S1 Remove non-structural glass				
		CL1→HL2	S2 Install non-structural glass				
Line T	**DEACTIVATE AND REACTIVATE ALTERNATE-FUEL SYSTEMS**	**Line T**	**DEACTIVATE AND REACTIVATE ALTERNATE-FUEL SYSTEMS**	**Line T**	**DEACTIVATE AND REACTIVATE ALTERNATE-FUEL SYSTEMS**	**Line T**	**DEACTIVATE AND REACTIVATE ALTERNATE-FUEL SYSTEMS**
				New	T1 Deactivate alternate-fuel systems		
				New	T2 Reactivate alternate-fuel systems		
Line U	**REMOVE AND INSTALL MECHANICAL COMPONENTS**	**Line U**	**REMOVE AND INSTALL MECHANICAL COMPONENTS**	**Line U**	**REMOVE AND INSTALL MECHANICAL COMPONENTS**	**Line U**	**REMOVE AND INSTALL MECHANICAL COMPONENTS**
				CL2→HL3	U1 Identify fundamentals of heating and cooling systems and components		
				CL2→HL3	U2 Identify fundamentals of powertrain systems and components		

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						CL3→HL4	U3 Identify fundamentals of steering, suspension and braking systems
				CL2/CL3→HL3/HL4	U4 Remove mechanical components	CL2/CL3→HL3/HL4	U4 Remove mechanical components
				CL2/CL3→HL3/HL4	U5 Install mechanical components	CL2/CL3→HL3/HL4	U5 Install mechanical components
Line V	**REMOVE, REPAIR AND INSTALL ELECTRICAL AND ELECTRONIC COMPONENTS**	**Line V**	**REMOVE, REPAIR AND INSTALL ELECTRICAL AND ELECTRONIC COMPONENTS**	**Line V**	**REMOVE, REPAIR AND INSTALL ELECTRICAL AND ELECTRONIC COMPONENTS**	**Line V**	**REMOVE, REPAIR AND INSTALL ELECTRICAL AND ELECTRONIC COMPONENTS**
				CL2/CL3→HL3/HL4	V1 Identify fundamentals of electrical systems and components		
				CL2/CL3→HL3/HL4	V2 Remove electrical components		
				CL2/CL3→HL3/HL4	V3 Repair damaged wires and protective coverings		
				CL2/CL3→HL3/HL4	V4 Install electrical components		
				New	V5 Service advanced electronic components	New	V5 Service advanced electronic components
Line W	**REPAIR AND REPLACE INTERIOR COMPONENTS**	**Line W**	**REPAIR AND REPLACE INTERIOR COMPONENTS**	**Line W**	**REPAIR AND REPLACE INTERIOR COMPONENTS**	**Line W**	**REPAIR AND REPLACE INTERIOR COMPONENTS**
		CL1→HL2	W1 Repair interior components				
		CL1→HL2	W2 Replace interior components				
Line X	**SERVICE SUPPLEMENTAL RESTRAINT SYSTEMS (SRS)**	**Line X**	**SERVICE SUPPLEMENTAL RESTRAINT SYSTEMS (SRS)**	**Line X**	**SERVICE SUPPLEMENTAL RESTRAINT SYSTEMS (SRS)**	**Line X**	**SERVICE SUPPLEMENTAL RESTRAINT SYSTEMS (SRS)**
				CL2→HL3	X1 Service seat belt restraint systems		

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				CL2→HL3	X2 Service air bags and related components		

Details – Competency Migration

This chart shows **where content from the current MVBR program (CL) moved to in the harmonized Collision program (HL)** and includes details of content that was moved or split across levels.

CURRENT LEVEL 1 (MVBR) TO HARMONIZED LEVEL 1

CURRENT LEVEL 1 (MVBR) CL1	HARMONIZED COMMON CORE LEVEL 1 (HL1)	MIGRATION	DETAILS
Line A OCCUPATIONAL SKILLS AND SAFETY	**Line A PERFORM SAFETY-RELATED FUNCTIONS**		
A1 Describe safe work practices	A1 Maintain safe work environment B2 Use lifting equipment	N/A	
A2 Describe shop safety procedures	A1 Maintain safe work environment B2 Use lifting equipment B6 Maintain shop equipment	N/A	
A3 Describe waste product handling	D2 Use documentation	N/A	
A4 Describe WHMIS	A1 Maintain safe work environment	N/A	
A5 Describe Personal Protective Equipment (PPE)	A2 Use personal protective equipment (PPE) and safety equipment	N/A	
A6 Describe WCB Standards and Regulations	A1 Maintain safe work environment	N/A	
Line B TOOLS AND EQUIPMENT	**Line B USE TOOLS AND EQUIPMENT** **Line D ORGANIZE WORK AND USE DOCUMENTATION**		
B1 Describe collision repair hand tools	B1 Maintain hand and power tools	N/A	
B2 Identify power tools	B1 Maintain hand and power tools	N/A	
	B6 Maintain shop equipment	N/A	This content was taught in context of other tasks in CL1
B3 Identify various fasteners	F2 Remove trim and hardware F3 Install trim and hardware	N/A	

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CURRENT LEVEL 1 (MVBR) CL1	HARMONIZED COMMON CORE LEVEL 1 (HL1)	MIGRATION	DETAILS
B4 Describe organizational skills	D1 Organize parts, materials and work area D2 Use documentation D4 Organize production schedule	N/A	
	D3 Perform inspections	Added from Refinishing	Includes performing inspections of coatings and inspecting body repairs (prior to refinishing)
Line C OXYACETYLENE PROCEDURES	**Line C USE WELDING EQUIPMENT**		
C1 Describe oxyacetylene safety	C1 Use cutting and heating equipment	N/A	
C2 Perform oxyacetylene procedures	C1 Use cutting and heating equipment	N/A	
Line D WELDING	**Line C USE WELDING EQUIPMENT**		
D1 Describe MIG (Shielded Metal Arc Welding SMAW) safety D2 Describe MIG welding process D3 Perform various MIG welds on sheet steel D4 Describe plasma arc cutting D5 Describe resistance spot welders	C2 Use welding equipment	N/A	
	C3 Maintain welding equipment	N/A	This content was taught in context of other tasks in CL1.
N/A	**Line E USE COMMUNICATION AND MENTORING TECHNIQUES**		
	E1 Use communication techniques	New	Includes shop roles and responsibilities, business relations and active listening
Line E SHEET METAL REPAIR	**Line K REMOVE, REPAIR AND INSTALL METAL PANELS AND COMPONENTS**		
E1 Describe the characteristics of sheet metal	K1 Identify fundamentals of vehicle construction, metal and damage	N/A	
E2 Describe the types of basic sheet metal damage	K1 Identify fundamentals of vehicle construction, metal and damage	N/A	
E3 Identify sheet metal repair tools and equipment	K4 Repair metal panels and components K2 Prepare metal panels and components for repair K3 Remove metal panels and components K4 Repair metal panels and components	N/A	
E4 Describe minor sheet metal damage repair	K2 Prepare metal panels and components for repair K4 Repair metal panels and components H1 Mix repair materials	N/A	
Line F PLASTICS AND COMPOSITES	**Line L REMOVE, REPAIR AND INSTALL PLASTIC AND COMPOSITE PANELS**		

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CURRENT LEVEL 1 (MVBR) CL1	HARMONIZED COMMON CORE LEVEL 1 (HL1)	MIGRATION	DETAILS
	AND COMPONENTS		
F1 Describe plastic repair tools and equipment	L1 Identify fundamentals of plastics and composite panels and components L4 Repair plastic and composite panels and components	N/A	
F2 Describe plastic repair techniques	L1 Identify fundamentals of plastics and composite panels and components L4 Repair plastic and composite panels and components	N/A	
F3 Demonstrate plastic repair techniques	L2 Prepare plastic and composite panels and components for repair L3 Remove plastic and composite panels and components L4 Repair plastic and composite panels and components L5 Install plastic and composite panels and components	N/A	
Line G SURFACE PREPARATION	**Line G PREPARE SURFACE** **Line H USE REPAIR MATERIALS AND EQUIPMENT**		
G1 Describe spray gun use	B4 Maintain spray equipment	CL1→HL1/HL2	Content from Level 1 was **split** across Levels 1 and 2 HL1= Perform spray equipment maintenance and test spray HL2 = Describe recycling machines
	H3 Perform spray gun set up	N/A	
G2 Identify air supply and purification equipment	B3 Maintain spray booth	N/A	
G3 Identify various spray booths	B3 Maintain spray booth B7 Use curing and drying equipment	N/A	
G4 Demonstrate preparation for application of undercoats/primers	G4 Sand surface H1 Mix repair materials	N/A	
G5 Demonstrate the application of undercoats/primers	B5 Maintain mixing equipment H2 Prepare spray booth H4 Apply repair materials	N/A	
	G1 Perform initial preparation	HL1←CL3	Moved from Level 3 to Level 1; includes cleaning the surface and identifying substrate condition
	G2 Mask surface	Added from Refinishing	Includes using masking techniques for primer
	G3 Strip surface	Added from Refinishing	Includes describing paint removal techniques
G6 Identify corrosion protection techniques		CL1→HL2	Moved to HL2. See Level 2 chart below for details.

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CURRENT LEVEL 1 (MVBR) CL1	HARMONIZED COMMON CORE LEVEL 1 (HL1)	MIGRATION	DETAILS
Line H AUTO BODY CONSTRUCTION AND COMPONENTS	**Line F REMOVE AND INSTALL VEHICLE COMPONENTS** **Line K REMOVE, REPAIR AND INSTALL METAL PANELS AND COMPONENTS**		
H1 Identify auto body construction types	K1 Identify fundamentals of vehicle construction, metal and damage	N/A	
H2 Describe panel alignment methods	K4 Repair metal panels and components K5 Install metal panels and components	N/A	
H3 Describe body component servicing procedures	F2 Remove trim and hardware F3 Install trim and hardware K2 Prepare metal panels and components for repair K3 Remove metal panels and components K4 Repair metal panels and components K5 Install metal panels and components	N/A	
H4 Describe automotive tempered glass		CL1→HL2	Moved to HL2. See Level 2 chart below for details.
H5 Describe automotive laminated glass		CL1→HL2	Moved to HL2. See Level 2 chart below for details.
H6 Service non-structural glass		CL1→HL2	Moved to HL2. See Level 2 chart below for details.
	Line I APPLY REFINISHING MATERIALS		
	I1 Mix refinishing materials	HL1/HL2←CL3 & New	Content moved from Level 3 to Levels 1 and 2 and **NEW** content was added. HL1 = Mix refinishing materials, including sealers, primer sealers, single-stage, and base coat/clear coat HL2 = Mix refinishing materials, including sealers, primer sealers, single-stage, and base coat/clear coat
	I2 Apply primer sealers	HL1/HL2←CL3 & New	Content moved from Level 3 to Levels 1 and 2 and **NEW** content was added. HL1 = Apply primer sealers HL2 = Select and apply primer sealers (with a focus on tinting)
	I3 Apply single-stage paint	HL1/HL2←CL3 & New	Content moved from Level 3 to Levels 1 and 2 and **NEW** content was added. HL1 = Apply single-stage paint HL2 = Describe single-stage paint (with a focus on troubleshooting)

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CURRENT LEVEL 1 (MVBR) CL1	HARMONIZED COMMON CORE LEVEL 1 (HL1)	MIGRATION	DETAILS
	I4 Apply base coat/clear coat	HL1/HL2←CL3 & New	Content moved from Level 3 to Levels 1 and 2 and **NEW** content was added. HL1 = Apply base coat/clear coat finish HL2 = Describe applying and blending base coat/clear coat and multistage paint
	Line M DETAIL EXTERIOR		
	M1 Remove minor imperfections	HL1←CL3	HL1 = Describe the post-refinish detailing process; polish panel
	M2 Clean exterior and interior of vehicle	HL1←CL3	HL1 = Describe cleaning exterior and interior of vehicle

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CURRENT LEVEL 2 (MVBR) TO HARMONIZED LEVEL 2

CURRENT LEVEL 2 (MVBR) CL2	HARMONIZED LEVEL 2 (HL2)	MIGRATION	DETAILS
	Line B USE TOOLS AND EQUIPMENT		
	B2 Use lifting equipment	CL1→HL1/HL2	Content from Level 1 was **split** across Levels 1 and 2 HL1 = Perform vehicle lifting HL2 = Describe specialty lifts; lift and mount vehicle to install anchoring equipment
	B4 Maintain spray equipment	CL1→HL1/HL2	Content from Level 1 was **split** across Levels 1 and 2 HL1 = Perform spray equipment maintenance and test spray HL2 = Describe recycling machines
	B5 Maintain mixing equipment	New from RSOS	HL2 = Maintain mixing systems and room **Note**: HL1 content wasn't new
Line D WELDING	**Line C USE WELDING EQUIPMENT**		
D6 Describe set-up procedures for MIG welding aluminum	C2 Use welding equipment C3 Maintain welding equipment	N/A	
D7 Perform various aluminum MIG welds	C2 Use welding equipment C3 Maintain welding equipment	N/A	
	Line D ORGANIZE WORK AND USE DOCUMENTATION		
	D1 Organize parts, materials and work area	N/A	This was taught in context of other tasks; often referred to as housekeeping
	Line H USE REPAIR MATERIALS AND EQUIPMENT		
	H2 Prepare spray booth	HL2←CL3	HL2 = Describe preparation of spray booths **Note**: HL1 content for this competency wasn't moved
	H3 Perform spray gun set up	HL2←CL3	HL2 = Set up spray gun and components; verify and troubleshoot patterns **Note**: HL1 content for this competency wasn't moved
	Line I APPLY REFINISHING MATERIALS		
	I1 Mix refinishing materials	HL1/HL2←CL3 & New	Content moved from Level 3 to Levels 1 and 2 and **NEW**

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CURRENT LEVEL 2 (MVBR) CL2	HARMONIZED LEVEL 2 (HL2)	MIGRATION	DETAILS
			content was added. HL1 = Mix refinishing materials, including sealers, primer sealers, single-stage, and base coat/clear coat HL2 = Mix refinishing materials, including sealers, primer sealers, single-stage, and base coat/clear coat
	I2 Apply primer sealers	HL1/HL2←CL3 & New	Content moved from Level 3 to Levels 1 and 2 and **NEW** content was added. HL1 = Apply primer sealers HL2 = Select and apply primer sealers (with a focus on tinting)
	I3 Apply single-stage paint	HL1/HL2←CL3 & New	Content moved from Level 3 to Levels 1 and 2 and **NEW** content was added. HL1 = Apply single-stage paint HL2 = Describe single-stage paint (with a focus on troubleshooting)
	I4 Apply base coat/clear coat	HL1/HL2←CL3 & New	Content moved from Level 3 to Levels 1 and 2 and **NEW** content was added. HL1 = Apply base coat/clear coat finish HL2 = Describe applying and blending base coat/clear coat and multistage paint
	I6 Perform colour adjustment	New from RSOS	New content was added; includes describing colour theory and adjustment
	Line J PERFORM POST-REFINISHING FUNCTIONS		
	J2 Correct surface imperfections	HL2←CL3	HL2 = Recognize surface imperfections; describe correcting surface imperfections
Line E SHEET METAL REPAIR	**Line K REMOVE, REPAIR AND INSTALL METAL PANELS AND COMPONENTS**		
E5 Describe productive organizational skills	D5 Prepare repair plan	N/A	
E6 Describe complex damage analysis procedures	K1 Identify fundamentals of vehicle construction, metal and damage	N/A	
E7 Describe roughing procedures for repairing sheet metal	K4 Repair metal panels and components	N/A	
E8 Describe plastic filling procedures for damage to	K4 Repair metal panels and components	N/A	

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CURRENT LEVEL 2 (MVBR) CL2	HARMONIZED LEVEL 2 (HL2)	MIGRATION	DETAILS
complex sheet metal areas			
E9 Demonstrate sheet metal repair procedures	K4 Repair metal panels and components	N/A	
E10 Describe panel replacement and repair techniques	K4 Repair metal panels and components	N/A	
E11 Describe the characteristics of aluminum	K1 Identify fundamentals of vehicle construction, metal and damage	N/A	
E12 Describe basic sheet aluminum repairs	K4 Repair metal panels and components	N/A	
Line F PLASTICS AND COMPOSITES	**Line L REMOVE, REPAIR AND INSTALL PLASTIC AND COMPOSITE PANELS AND COMPONENTS**		
F4 Describe fiberglass and SMC repair equipment	L1 Identify fundamentals of plastics and composite panels and components L4 Repair plastic and composite panels and components	N/A	
F5 Describe repair procedures for fiberglass and SMC	L2 Prepare plastic and composite panels and components for repair L4 Repair plastic and composite panels and components	N/A	
F6 Perform fiberglass and SMC repairs	L2 Prepare plastic and composite panels and components for repair L3 Remove plastic and composite panels and components L4 Repair plastic and composite panels and components L5 Install plastic and composite panels and components	N/A	
Line I MECHANICAL COMPONENTS			
I1 Identify seat belt assemblies		CL2→HL3	Content from CL2 was moved to HL3; see Level 3 chart below for details.
I2 Identify airbag system components		CL2→HL3	Content from CL2 was moved to HL3; see Level 3 chart below for details.
I3 Discuss cooling system service		CL2→HL3	Content from CL2 was moved to HL3; see Level 3 chart below for details.
I4 Describe air conditioning service		CL2→HL3	Content from CL2 was moved to HL3; see Level 3 chart below for details.
I5 Identify vehicle systems		CL2→HL3/HL4	Content from CL2 was moved to HL3 and HL4; see Level 3 and 4 charts below for details.
I6 Identify electrical/electronic on-board procedures		CL2→HL3/HL4	Content from CL2 was moved to HL3 and HL4; see Level 3 and 4 charts below for details.
	Line O APPLY CORROSION PROTECTION AND SOUND DEADENING		

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CURRENT LEVEL 2 (MVBR) CL2	HARMONIZED LEVEL 2 (HL2)	MIGRATION	DETAILS
	MATERIALS		
	O1 Apply corrosion inhibitors and undercoats	HL2←CL3	Content was moved from CL3 to HL2; includes describing corrosion and applying corrosion protection
	O2 Apply seam sealers and sound deadeners	N/A	Was taught in context of panel replacement
	Line R REMOVE, INSTALL AND REPAIR STRUCTURAL AND LAMINATED GLASS		
	R1 Remove structural glass	CL1→HL2 & New	Moved from CL1 to HL2 and **new** content was added; includes describing removal of laminated, structural glass
	R2 Install structural glass	CL1→HL2 & New	Moved from CL1 to HL2 and **new** content was added; includes describing the installation of laminated, structural glass
	R3 Repair laminated glass	CL1→HL2 & New	Moved from CL1 to HL2 and **new** content was added; includes describing repair of laminated glass
	Line S REMOVE AND INSTALL NON-STRUCTURAL GLASS		
	S1 Remove non-structural glass	CL1→HL2	Moved from CL1 to HL2; includes removing non-structural glass
	S2 Install non-structural glass	CL1→HL2	Moved from CL1 to HL2; includes describing the installation of non-structural glass
	Line W REPAIR AND REPLACE INTERIOR COMPONENTS		
	W1 Repair interior components	CL1→HL2	Moved from CL1 to HL2; includes describing removal and repair of interior components
	W2 Replace interior components	CL1→HL2	Moved from CL1 to HL2; includes describing installation of interior components

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CURRENT LEVEL 3 (MVBR) TO HARMONIZED LEVEL 3

CURRENT LEVEL 3 (MVBR) CL3	HARMONIZED LEVEL 3 (HL3)	MIGRATION	DETAILS
	Line B USE TOOLS AND EQUIPMENT		
	B9 Use diagnostic equipment	New from RSOS	HL3 = Maintain diagnostic equipment; perform pre-scan and post-scan of vehicle
	Line C USE WELDING EQUIPMENT		
	C2 Use welding equipment	N/A	In Current Level 3, welding was taught in context of other tasks
Line J STRUCTURAL REPAIR	**Line P PREPARE FOR STRUCTURAL REPAIR** **Line Q REMOVE, REPAIR AND INSTALL STRUCTURAL COMPONENTS**		
J1 Identify the various structural designs	P1 Identify extent of damage	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 Hl3 = Identify types and patterns of damage HL4 = Perform measurements, including 3D measurements; Prepare a damage analysis report
J2 Identify collision theory concepts	P1 Identify extent of damage	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 Hl3 = Identify types and patterns of damage HL4 = Perform measurements, including 3D measurements; Prepare a damage analysis report
J3 Identify damage assessment techniques	P1 Identify extent of damage	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 Hl3 = Identify types and patterns of damage HL4 = Perform measurements, including 3D measurements; Prepare a damage analysis report
J4 Identify measuring theory and gauging equipment	B8 Maintain frame and unibody repair and measuring equipment	CL3→HL3/HL4	Content from Level 3 was split between Levels 3 and 4 HL3 = Describe the maintenance of measuring systems HL4 = Describe maintaining frame pulling equipment
J5 Identify various measuring systems	B8 Maintain frame and unibody repair and measuring equipment	CL3→HL3/HL4	Content from Level 3 was split between Levels 3 and 4 HL3 = Describe the maintenance of measuring systems HL4 = Describe maintaining frame pulling equipment
J6 Identify unibody anchoring techniques	P2 Remove components for access P3 Perform vehicle set up	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4; see Level 4 chart below for details
J7 Identify conventional frame anchoring techniques		CL3→HL4	Moved from Level 3 to Level 4. See Level 4 chart below for

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CURRENT LEVEL 3 (MVBR) CL3	HARMONIZED LEVEL 3 (HL3)	MIGRATION	DETAILS
			details
J8 Describe straightening techniques	Q1 Repair structural components	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 HL3 = Perform a unibody set up for anchoring HL4 = Perform vehicle set up for conventional frame repair
J9 Describe pulling techniques	Q1 Repair structural components	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 HL3 = Perform a unibody set up for anchoring HL4 = Perform vehicle set up for conventional frame repair
J10 Describe structural panel replacement procedures	Q2 Remove structural components Q3 Install structural components	N/A	
J11 Prepare a structural damage analysis sheet	P1 Identify extent of damage	N/A	
J12 Demonstrate structural repair procedures	P1 Identify extent of damage Q1 Repair structural components	N/A	
J13 Demonstrate closed box panel structural sectioning techniques	Q1 Repair structural components	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 HL3 = Describe repairing structural components HL4 = Describe pulling techniques; perform structural sectioning
Line K SUSPENSION AND STEERING			
K1 Identify MacPherson Strut suspension system		CL3→HL4	Moved from Level 3 to Level 4; see Level 4 chart below for details
K2 Identify short and long arm suspension systems		CL3→HL4	Moved from Level 3 to Level 4; see Level 4 chart below for details
K3 Identify the various types of rear suspension systems		CL3→HL4	Moved from Level 3 to Level 4; see Level 4 chart below for details
K4 Identify R&I procedures for suspension systems		CL3→HL4	Moved from Level 3 to Level 4; see Level 4 chart below for details
K5 Describe rack and pinion steering systems		CL3→HL4	Moved from Level 3 to Level 4; see Level 4 chart below for details
K6 Describe parallelogram steering systems		CL3→HL4	Moved from Level 3 to Level 4; see Level 4 chart below for details
K7 Identify wheel alignment angles		CL3→HL4	Moved from Level 3 to Level 4; see Level 4 chart below for

Auto Body and Collision Technician Program Outline Review Details

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CURRENT LEVEL 3 (MVBR) CL3	HARMONIZED LEVEL 3 (HL3)	MIGRATION	DETAILS
			details
Line L INSURANCE ESTIMATING	**Line D ORGANIZE WORK AND USE DOCUMENTATION**		
L1 Interpret estimating information	D6 Prepare estimates and supplements	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 HL3 = Create an estimate and supplement HL4 = Create supplements and sublets Note: Achievement criteria were added
L2 Interpret business relations		HL1←CL3	Moved from Level 3 to Level 1; became a learning task in Use communication techniques
Line M REFINISHING			
M1 Identify preparation of various substrates and topcoats		HL1/HL2←CL3	Content from Level 3 was split across Levels 1 and 2. See charts for Levels 1 and 2 above for details.
M2 Describe mixing and application of primers		HL1/HL2←CL3	Content from Level 3 was split across Levels 1 and 2. See charts for Levels 1 and 2 above for details.
M3 Describe refinishing corrosion protection methods		HL2←CL3	Content was moved from CL3 to HL2. See charts for Levels 1 and 2 above for details.
M4 Describe the refinishing process		HL1/HL2←CL3	Content from Level 3 was split across Levels 1 and 2. See charts for Levels 1 and 2 above for details.
M5 Identify the detailing process	N1 Perform final operational check	N/A	
	Line T DEACTIVATE AND REACTIVATE ALTERNATE-FUEL SYSTEMS		
	T1 Deactivate alternate-fuel systems	New from RSOS	New content added, includes following safety procedures for alternate fuel systems and describing deactivating alternate fuel systems
	T2 Reactivate alternate-fuel systems	New from RSOS	New content added, includes describing reactivating fuel systems
	Line U REMOVE AND INSTALL MECHANICAL COMPONENTS		
	U1 Identify fundamentals of heating and cooling systems and components	CL2→HL3	Content from CL2 was moved to HL3; includes identifying fundamentals of heating and cooling systems and components
	U2 Identify fundamentals of powertrain systems and components	CL2→HL3	Content from CL2 was moved to HL3; includes identifying fundamentals of powertrain systems and components
	U4 Remove mechanical components	CL2/CL3→HL3/HL4	Moved from Level 2 and 3 to Level 3 and 4;

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CURRENT LEVEL 3 (MVBR) CL3	HARMONIZED LEVEL 3 (HL3)	MIGRATION	DETAILS
			CL2→HL3 includes describing removal of mechanical components (cooling systems and powertrain) CL3→HL4 includes removing steering, suspension and braking systems
	U5 Install mechanical components	CL2/CL3→HL3/HL4	Moved from Level 2 and 3 to Level 3 and 4 CL2→HL3 includes describing installation of mechanical components (cooling systems and powertrain) CL3→HL4 includes installing steering, suspension and braking systems
	Line V REMOVE, REPAIR AND INSTALL ELECTRICAL AND ELECTRONIC COMPONENTS		
	V1 Identify fundamentals of electrical systems and components	c	Content from CL2 was moved to HL3; includes identifying fundamentals of electrical systems and components
	V2 Remove electrical components	CL2→HL3	Content from CL2 was moved to HL3; includes describing removal of electrical components
	V3 Repair damaged wires and protective coverings	CL2→HL3	Content from CL2 was moved to HL3; includes repairing damaged wires and protective coverings; servicing low-voltage batteries
	V4 Install electrical components	CL2→HL3	Content from CL2 was moved to HL3; includes describing installation of electrical components
	V5 Service advanced electronic components	New from RSOS	Content added to Levels 3 and 4 HL3 = describe electronic components HL4 = Describe servicing advanced electronic components (that need servicing after repairing vehicle damage)
	Line X SERVICE SUPPLEMENTAL RESTRAINT SYSTEMS (SRS)		
	X1 Service seat belt restraint systems	CL2→HL3	Moved from Level 2 to Level 3; includes describe servicing seat belt restraint systems
	X2 Service air bags and related components	CL2→HL3	Moved from Level 2 to Level 3; includes following safety procedures around air bags and describing servicing air bags and related components

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HARMONIZED LEVEL 4 (NEW LEVEL)

	HARMONIZED LEVEL 4 (HL4) – NEW LEVEL	MIGRATION	DETAILS
	Line B USE TOOLS AND EQUIPMENT		
	B8 Maintain frame and unibody repair and measuring equipment	CL3→HL3/HL4	Content from Level 3 was split between Levels 3 and 4 HL3 = Describe the maintenance of measuring systems HL4 = Describe maintaining frame pulling equipment
	Line D ORGANIZE WORK AND USE DOCUMENTATION		
	D6 Prepare estimates and supplements	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 HL3 = Create an estimate and supplement HL4 = Create supplements and sublets Note: Achievement criteria were added
	Line E USE COMMUNICATION AND MENTORING TECHNIQUES		
	E2 Use mentoring techniques	New to RSOS	Content was added; includes using mentoring techniques (role of mentor, skills and attributes, workplace diversity and inclusion)
	Line N PERFORM FINAL INSPECTIONS		
	N2 Perform final quality control inspections	New from RSOS	Content added; includes performing quality control
	Line P PREPARE FOR STRUCTURAL REPAIR		
	P1 Identify extent of damage	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 Hl3 = Identify types and patterns of damage HL4 = Perform measurements, including 3D measurements; Prepare a damage analysis report
	P2 Remove components for access	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 HL3 = Describe unibody components; describe removal considerations HL4 = Describe removing and handling of components for access
	P3 Perform vehicle set up	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 HL3 = Perform a unibody set up for anchoring HL4 = Perform vehicle set up for conventional frame repair

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	Line Q REMOVE, REPAIR AND INSTALL STRUCTURAL COMPONENTS		
	Q1 Repair structural components	CL3→HL3/HL4	Content from Level 3 was split across Levels 3 and 4 HL3 = Describe repairing structural components HL4 = Describe pulling techniques; perform structural sectioning
	Line U REMOVE AND INSTALL MECHANICAL COMPONENTS		
	U3 Identify fundamentals of steering, suspension and braking systems	CL3→HL4	Moved from Level 3 to Level 4; includes identifying fundamentals of steering, suspension and braking systems
	U4 Remove mechanical components	CL2/CL3→HL3/HL4	Moved from Level 2 and 3 to Level 3 and 4 CL2→HL3 includes describing removal of mechanical components (cooling systems and powertrain) CL3→HL4 includes removing steering, suspension and braking systems
	U5 Install mechanical components	CL2/CL3→HL3/HL4	Moved from Level 2 and 3 to Level 3 and 4 CL2→HL3 includes describing installation of mechanical components (cooling systems and powertrain) CL3→HL4 includes installing steering, suspension and braking systems
	Line V REMOVE, REPAIR AND INSTALL ELECTRICAL AND ELECTRONIC COMPONENTS		
	V5 Service advanced electronic components	New from RSOS	Content added; includes describing servicing advanced electronic components (ADAS, wiring diagrams, on board computers, etc.)