

Issued: June 26, 2020

Program: Automotive Painter (Automotive Refinishing Technician)

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

Subject: **Automotive Painter (Automotive Refinishing Technician)**

OPSN No.: **OPSN 2020 006**

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/automotive-painter-automotive-refinishing-technician>.

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

Trade Name: Automotive Refinishing Technician

Credentialing Model:

- Common Core Level 1 to serve both the Automotive Refinishing Technician and Auto Body and Collision Technician programs
- Inactivation of Automotive Refinishing Prep Technician (see [OPSN 2020 007](#) for details)

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

Duration of Technical Training:

Technical Training	Current	Harmonized	Difference
Common Core Level 1	120 hours (Prep)	210 hours	Increase of 90 hours
Level 2	120 hours (Paint)	90 hours	Decrease of 30 hours
Total	240 hours	300 hours	Increase of 60 hours

Work-based Training Hours (WBT): decrease of 1,740 hours from 5,040 hours to 3,300 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
- 450 hours toward Automotive Refinishing Technician
- 625 hours toward Auto Body and Collision Technician

Program Duration:

FDN program	Prep Only 660 hours (22 weeks)	Combined with Collision 1,020 hours (34 weeks)	Increase of 360 hours (12 weeks)
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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 Automotive Painter National Occupational Analysis (NOA, 2013) 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:**Automotive Refinishing Technician Program Outline Review Details**

This attachment provides details of the revisions made to the Automotive Refinishing Technician Program Outline during the review process.

**For more
information
contact:**

Program Standards
email: programstandards@itabc.ca

cc:

All Staff

Automotive Refinishing Technician Program Outline Review Details

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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 the competencies have been renamed and restructured**. This chart shows the finalized competency distribution for the Harmonized Automotive Refinishing Technician program. It summarizes the major movement of competencies across levels. For details, see the second chart below.

HARMONIZED COMMON CORE LEVEL 1 (HL1)		HARMONIZED LEVEL 2 (HL2)	
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
	B1 Maintain hand and power tools		
	B2 Use lifting equipment		
	B3 Maintain spray booth		
CL1→HL1/HL2	B4 Maintain spray equipment	CL1→HL1/HL2	B4 Maintain spray equipment
CL1→HL1/HL2	B5 Maintain mixing equipment	CL1→HL1/HL2	B5 Maintain mixing equipment
	B6 Maintain shop equipment		
CL1→HL1/HL2	B7 Use curing and drying equipment	CL1→HL1/HL2	B7 Use curing and drying equipment
Line C	USE WELDING EQUIPMENT	Line C	USE WELDING EQUIPMENT
New	C1 Use cutting and heating equipment		
New	C2 Use welding equipment		
New	C3 Maintain welding equipment		
Line D	ORGANIZE WORK AND USE DOCUMENTATION	Line D	ORGANIZE WORK AND USE DOCUMENTATION
	D1 Organize parts, materials and work area		
	D2 Use documentation		D2 Use documentation
	D3 Perform inspections		D3 Perform inspections
	D4 Organize production schedule		D4 Organize production schedule
			D5 Prepare repair plan
			D6 Prepare estimates and supplements

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HARMONIZED COMMON CORE LEVEL 1 (HL1)		HARMONIZED LEVEL 2 (HL2)	
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
	F1 Identify vehicle components		
	F2 Remove trim and hardware		
	F3 Install trim and hardware		
Line G	PREPARE SURFACE	Line G	PREPARE SURFACE
	G1 Perform initial preparation		
	G2 Mask surface		G2 Mask surface
	G3 Strip surface		
	G4 Sand surface		
Line H	USE REPAIR MATERIALS AND EQUIPMENT	Line H	USE REPAIR MATERIALS AND EQUIPMENT
	H1 Mix repair materials		
CL1→HL1/HL2	H2 Prepare spray booth	CL1→HL1/HL2	H2 Prepare spray booth
CL1→HL1/HL2	H3 Perform spray gun set up	CL1→HL1/HL2	H3 Perform spray gun set up
	H4 Apply repair materials		
Line I	APPLY REFINISHING MATERIALS	Line I	APPLY REFINISHING MATERIALS
HL1/HL2←CL2	I1 Mix refinishing materials	HL1/HL2←CL2	I1 Mix refinishing materials
HL1/HL2←CL2	I2 Apply sealers	HL1/HL2←CL2	I2 Apply sealers
HL1/HL2←CL2	I3 Apply single-stage paint	HL1/HL2←CL2	I3 Apply single-stage paint
HL1/HL2←CL2	I4 Apply base coat/clear coat	HL1/HL2←CL2	I4 Apply base coat/clear coat
			I5 Troubleshoot refinish problems
			I6 Perform colour adjustment
Line J	PERFORM POST-REFINISHING FUNCTIONS	Line J	PERFORM POST-REFINISHING FUNCTIONS
		CL1→HL2	J1 Remove masking materials
			J2 Correct surface imperfections
			J3 Perform final check
Line K	REMOVE, REPAIR AND INSTALL METAL PANELS AND COMPONENTS	Line K	REMOVE, REPAIR AND INSTALL METAL PANELS AND COMPONENTS



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	HARMONIZED COMMON CORE LEVEL 1 (HL1)		HARMONIZED LEVEL 2 (HL2)
New	K1 Identify fundamentals of vehicle construction, metal and damage		
New	K2 Prepare metal panels and components for repair		
New	K3 Remove metal panels and components		
New	K4 Repair metal panels and components		
New	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
New	L1 Identify fundamentals of plastics and composite panels and components		
New	L2 Prepare plastic and composite panels and components for repair		
New	L3 Remove plastic and composite panels and components		
New	L4 Repair plastic and composite panels and components		
New	L5 Install plastic and composite panels and components		
Line M	DETAIL EXTERIOR	Line M	DETAIL EXTERIOR
	M1 Remove minor imperfections		
New	M2 Clean exterior and interior of vehicle		

Details – Competency Migration

This chart shows where content from the current programs (Prep Tech and Paint) moved to in the harmonized program and includes details of content that was moved or split across levels.

CURRENT LEVEL 1 (Prep Tech) TO HARMONIZED LEVEL 1

CURRENT LEVEL 1 Auto Prep Tech (CL1)	HARMONIZED COMMON CORE LEVEL 1 (HL1)	Migration Summary	Details
Line A PERFORM SAFETY-RELATED FUNCTIONS	Line A PERFORM SAFETY-RELATED FUNCTIONS		
A1 Use PPE and safety equipment	A2 Use personal protective equipment (PPE) and safety equipment	N/A	
A2 Maintain safe work environment	A1 Maintain safe work environment B2 Use lifting equipment	N/A	
Line B MAINTAIN TOOLS AND EQUIPMENT	Line B USE TOOLS AND EQUIPMENT		
B1 Maintain hand and power tools	B1 Maintain hand and power tools	N/A	



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CURRENT LEVEL 1 Auto Prep Tech (CL1)	HARMONIZED COMMON CORE LEVEL 1 (HL1)	Migration Summary	Details
	B6 Maintain shop equipment		
B2 Maintain spray booth	B3 Maintain spray booth	N/A	
B3 Maintain spray equipment	B4 Maintain spray equipment	CL1→HL1/HL2	Content from Level 1 was split across Levels 1 and 2 HL1 = Maintain spray equipment and perform test spray HL2 = Describe solvent recycling
Line C USE DOCUMENTATION	Line D ORGANIZE WORK AND USE DOCUMENTATION		
C1 Interpret vehicle information	D2 Use documentation	N/A	Although D2 Use documentation is split across HL1 and Refinishing HL2, interpreting vehicle information is only in HL1
C2 Use technical manuals and bulletins	D2 Use documentation	N/A	
C3 Comply with safety and environmental regulations	D2 Use documentation A1 Maintain safe work environment	N/A	
C4 Interpret work orders	D2 Use documentation	CL1→HL1/HL2	Content from Level 1 was split across Levels 1 and 2 HL1 = Interpret specifications and procedures; use paint manufacturers' software HL2 = Apply regulations; use manufacturers' documentation; contribute to a repair estimate
	Line C USE WELDING EQUIPMENT		
	C1 Use cutting and heating equipment	Added from Collision	Perform oxyacetylene set up, cutting, heating and shut down
	C2 Use welding equipment	Added from Collision	Perform welds on 22-gauge steel in flat position, including butt weld without backing, lap weld, plug weld
	C3 Maintain welding equipment	Added from Collision	Describe the maintenance of welding equipment
Line D PLAN WORK	Line D ORGANIZE WORK AND USE DOCUMENTATION		
D1 Perform inspection	D3 Perform inspections	N/A	
D3 Organize production schedule	D4 Organize production schedule	N/A	
In context of other competencies	D1 Organize parts, materials and work area	N/A	
	Line E USE COMMUNICATION AND MENTORING TECHNIQUES		
	E1 Use communication techniques	New	Describe shop roles and responsibilities, business relations, active listening
Line E PREPARE SURFACE	Line G PREPARE SURFACE		

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CURRENT LEVEL 1 Auto Prep Tech (CL1)	HARMONIZED COMMON CORE LEVEL 1 (HL1)	Migration Summary	Details
	Line F REMOVE AND INSTALL VEHICLE COMPONENTS		
E1 Prepare vehicle for refinishing	G1 Perform initial preparation F1 Identify vehicle components F2 Remove trim and hardware	N/A	
E2 Mask vehicle	G2 Mask surface	N/A	
E3 Strip surface	G3 Strip surface	N/A	
E4 Sand surface	G4 Sand surface	N/A	
Line F USE REPAIR MATERIALS	Line H USE REPAIR MATERIALS AND EQUIPMENT		
F1 Mix repair materials	H1 Mix repair materials	N/A	
F2 Apply repair materials	H4 Apply repair materials	N/A	
F3 Apply corrosion protection		CL1→HL2	Competency was moved to Level 2 (see Level 2 section below for details)
Line G USE EQUIPMENT	Line H USE REPAIR MATERIALS AND EQUIPMENT		
G1 Use spray guns	H3 Perform spray gun set up	CL1→HL1/HL2	Content from Level 1 was split across Levels 1 and 2 HL1 = set up and use spray guns to apply coatings HL2 = verify and trouble shoot spray pattern problems
G2 Operate spray booth	H2 Prepare spray booth	CL1→HL1/HL2	Content from Level 1 was split across Levels 1 and 2 HL1 = operate spray booth HL2 = prepare spray booth (minimal content with a focus on corrective measures and reporting of issues)
G3 Operate drying and curing equipment	B7 Use curing and drying equipment	CL1→HL1/HL2	Content from Level 1 was split across Levels 1 and 2 HL1 = Operate curing and drying equipment HL2 = Use curing and drying equipment (with a focus on diagnosis)
G4 Use paint manufacturers' software and equipment	B5 Maintain mixing equipment	CL1→HL1/HL2	Content from Level 1 was split across Levels 1 and 2 HL1 = Use paint manufacturers' equipment HL2 = Update and organize colour library; maintain mixing system and rooms
Line I PERFORM PRE-DELIVERY TASKS	Line F REMOVE AND INSTALL VEHICLE COMPONENTS		
I1 Remove surface imperfections	Moved to Level 2	CL1→HL2	Content moved to Level 2



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CURRENT LEVEL 1 Auto Prep Tech (CL1)	HARMONIZED COMMON CORE LEVEL 1 (HL1)	Migration Summary	Details
			(see Level 2 section below for details)
I2 Install trim and accessories	F1 Identify vehicle components F3 Install trim and hardware	N/A	
Line I APPLY REFINISHING MATERIALS			
	I1 Mix refinishing materials	HL1/HL2←CL2	Content from Level 2 was split between Levels 1 and 2 HL1 = Mix refinishing materials, including sealers, primer sealers, single-stage, and base coat/clear coat HL2 = Mix refinishing materials (two-stage)
	I2 Apply sealers	HL1/HL2←CL2	Content from Level 2 was split between Levels 1 and 2 HL1 = apply primer sealers HL2 = apply and blend primer sealers; troubleshoot primer sealer issues
	I3 Apply single-stage paint	HL1/HL2←CL2	Content from Level 2 was split between Levels 1 and 2 HL1 = apply single-stage paint HL2 = troubleshoot single-stage paint
	I4 Apply base coat/clear coat	HL1/HL2←CL2	Content from Level 2 was split between Levels 1 and 2 HL1 = Apply base coat/clear coat HL2 = Apply and blend base coat/clear coat and multi-stage paint
Line K REMOVE, REPAIR AND INSTALL METAL PANELS AND COMPONENTS			
	K1 Identify fundamentals of vehicle construction, metal and damage	Added from Collision	Identify types of body/frame construction, describe characteristics of mild (low-carbon/low-alloy) steel, identify types of sheet metal damage
	K2 Prepare metal panels and components for repair	Added from Collision	Prepare panel for repair
	K3 Remove metal panels and components	Added from Collision	Remove mechanically fastened panel
	K4 Repair metal panels and components	Added from Collision	Repair cosmetic sheet metal damage
	K5 Install metal panels and components	Added from Collision	Perform metal panel alignment
Line L REMOVE, REPAIR AND INSTALL PLASTIC AND COMPOSITE PANELS AND COMPONENTS			



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CURRENT LEVEL 1 Auto Prep Tech (CL1)	HARMONIZED COMMON CORE LEVEL 1 (HL1)	Migration Summary	Details
	L1 Identify fundamentals of plastics and composite panels and components	Added from Collision	Describe and identify plastics and damage
	L2 Prepare plastic and composite panels and components for repair	Added from Collision	Prepare plastic panel for repair
	L3 Remove plastic and composite panels and components	Added from Collision	Describe removal of plastic panel
	L4 Repair plastic and composite panels and components	Added from Collision	Perform plastic repairs, including welded and adhesive
	L5 Install plastic and composite panels and components	Added from Collision	Describe methods of panel installation
Line I PERFORM PRE-DELIVERY TASKS	Line M DETAIL EXTERIOR		
I1 Remove surface imperfections	M1 Remove minor imperfections	N/A	
	M2 Clean exterior and interior of vehicle	New	Describe post-refinish vehicle cleaning

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CURRENT LEVEL 2 (Auto Painter) TO HARMONIZED LEVEL 2

CURRENT LEVEL 2 (Auto Painter)	HARMONIZED LEVEL 2 (Refinishing)	Migration	Details
	Line B USE TOOLS AND EQUIPMENT		
	B4 Maintain spray equipment	CL1→HL1/HL2	Content from Level 1 was split across Levels 1 and 2 HL1 = Maintain spray equipment and perform test spray HL2 = Describe solvent recycling
	B5 Maintain mixing equipment	CL1→HL1/HL2	Content from Level 1 was split across Levels 1 and 2 HL1 = Use paint manufacturers' equipment HL2 = Update and organize colour library; maintain mixing system and rooms
	B7 Use curing and drying equipment	CL1→HL1/HL2	Content from Level 1 was split across Levels 1 and 2 HL1 = Operate curing and drying equipment HL2 = Use curing and drying equipment (with a focus on diagnosis)
Line D PLAN WORK	Line D ORGANIZE WORK AND USE DOCUMENTATION		
D1 Perform inspection	D3 Perform inspections	N/A	
D2 Contribute to development of repair estimate	D2 Use documentation	N/A	
D3 Organize production schedule	D4 Organize production schedule	N/A	
	D5 Prepare repair plan	N/A	
	D6 Prepare estimates and supplements	N/A	
	Line E USE COMMUNICATION AND MENTORING TECHNIQUES		
	E2 Use mentoring techniques	New	Describe the role of mentor, mentoring skills, workplace diversity and inclusion
Line E PREPARE SURFACE	Line G PREPARE SURFACE		
E1 Prepare vehicle for refinishing	I2 Apply sealers	HL1/HL2←CL2	Content from Level 2 was split between Levels 1 and 2 HL1 = apply primer sealers HL2 = apply and blend primer sealers; troubleshoot primer sealer issues
E1 Prepare vehicle for refinishing	G2 Mask surface	N/A	
	Line H USE REPAIR MATERIALS AND EQUIPMENT		
	H2 Prepare spray booth	CL1→HL1/ HL2	Content from Level 1 was split across Levels 1 and 2

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CURRENT LEVEL 2 (Auto Painter)	HARMONIZED LEVEL 2 (Refinishing)	Migration	Details
			HL1 = operate spray booth HL2 = prepare spray booth (minimal content with a focus on corrective measures and reporting of issues)
	H3 Perform spray gun set up	CL1→HL1/HL2	Content from Level 1 was split across Levels 1 and 2 HL1 = set up and use spray guns to apply coatings HL2 = verify and trouble shoot spray pattern problems
Line H USE REFINISHING MATERIAL	Line I APPLY REFINISHING MATERIALS		
H1 Mix paint	I1 Mix refinishing materials	HL1/HL2←CL2	Content from Level 2 was split between Levels 1 and 2 HL1 = Mix refinishing materials, including sealers, primer sealers, single-stage, and base coat/clear coat HL2 = Mix refinishing materials (two-stage)
H2 Perform colour matching	I6 Perform colour adjustment	N/A	
H3 Apply refinishing materials	I2 Apply sealers I3 Apply single-stage paint I4 Apply base coat/clear coat	HL1/HL2←CL2	Content from Level 2 was split between Levels 1 and 2 HL1 = apply primer sealers HL2 = apply and blend primer sealers; troubleshoot primer sealer issues HL1 = apply single-stage paint HL2 = troubleshoot single-stage paint HL1 = Apply base coat/clear coat HL2 = Apply and blend base coat/clear coat and multi-stage paint
H4 Troubleshoot paint problems	I5 Troubleshoot refinish problems	N/A	
Line I PERFORM PRE-DELIVERY TASKS	Line J PERFORM POST-REFINISHING FUNCTIONS		
I1 Remove surface imperfections	J2 Correct surface imperfections	N/A	
I3 Apply decals and striping		N/A	
I4 Perform final check	J3 Perform final check	N/A	
	J1 Remove masking materials	CL1→HL2	Content from Level 1 was moved into Levels 2 Remove masking materials