# Occupational Analyses Series

# Automotive Painter

2009

Trades and Apprenticeship Division Division des métiers et de l'apprentissage

Workplace Partnerships Directorate Direction des partenariats en milieu de

travail

National Occupational Classification: 7322

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**FOREWORD** 

The Canadian Council of Directors of Apprenticeship (CCDA) recognizes this National Occupational Analysis as the national standard for the occupation of Automotive Painter.

### Background

The first National Conference on Apprenticeship in Trades and Industries, held in Ottawa in 1952, recommended that the federal government be requested to cooperate with provincial and territorial apprenticeship committees and officials in preparing analyses of a number of skilled occupations. To this end, Human Resources and Skills Development Canada sponsors a program, under the guidance of the CCDA, to develop a series of National Occupational Analyses (NOA).

The NOAs have the following objectives:

- to describe and group the tasks performed by skilled workers;
- to identify which tasks are performed in every province and territory;
- to develop instruments for use in the preparation of Interprovincial Red Seal Examinations and curricula for training leading to the certification of skilled workers;
- to facilitate the mobility of apprentices and skilled workers in Canada; and,
- to supply employers, employees, associations, industries, training institutions and governments with analyses of occupations.

### **ACKNOWLEDGEMENTS**

The Canadian Council of Directors of Apprenticeship (CCDA) and Human Resources and Skills Development Canada (HRSDC) wish to express sincere appreciation for the contribution of the many tradespersons, industrial establishments, professional associations, labour organizations, provincial and territorial government departments and agencies, and all others who contributed to this publication.

This analysis was prepared by the Workplace Partnerships Directorate of HRSDC. The coordinating, facilitating and processing of this analysis were undertaken by employees of the National Occupational Analysis (NOA) development team of the Trades and Apprenticeship Division.

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# LIST OF PUBLISHED NATIONAL OCCUPATIONAL ANALYSES (Red Seal Trades)

TITLE	NOC* Code
Agricultural Equipment Technician (2007)	7312
Appliance Service Technician (2005)	7332
Automotive Painter (2009)	7322
Automotive Service Technician (2005)	7321
Baker (2006)	6252
Boilermaker (2008)	7262
Bricklayer (2007)	7281
Cabinetmaker (2007)	7272
Carpenter (2005)	7271
Concrete Finisher (2006)	7282
Construction Electrician (2008)	7241
Construction Craft Worker (2009)	7611
Cook (2008)	6242
Electrical Rewind Mechanic (1999)	7333
Electronics Technician – Consumer Products (1997)	2242
Floorcovering Installer (2005)	7295
Glazier (2008)	7292
Hairstylist (2005)	6271
Heavy Duty Equipment Technician (2004)	7312
Industrial Electrician (2008)	7242
Industrial Mechanic (Millwright) (2007)	7311
Instrumentation and Control Technician (2007)	2243
Insulator (Heat and Frost) (2007)	7293
Ironworker (Generalist) (2006)	7264
Ironworker (Reinforcing) (2006)	7264
Ironworker (Structural/Ornamental) (2006)	7264
Lather (Interior Systems Mechanic) (2007)	7284
Machinist (2005)	7231
Metal Fabricator (Fitter) (2008)	7263

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<sup>\*</sup> National Occupational Classification

TITLE	NOC* Code
Mobile Crane Operator (2006)	7371
Motorcycle Mechanic (2006)	7334
Motor Vehicle Body Repairer (Metal and Paint) (2005)	7322
Oil Burner Mechanic (2006)	7331
Painter and Decorator (2007)	7294
Partsperson (2005)	1472
Plumber (2008)	7251
Powerline Technician (2004)	7244
Recreation Vehicle Service Technician (2006)	7383
Refrigeration and Air Conditioning Mechanic (2004)	7313
Rig Technician (2008)	8232
Roofer (2006)	7291
Sheet Metal Worker (2006)	7261
Sprinkler System Installer (2003)	7252
Steamfitter — Pipefitter (2007)	7252
Tilesetter (2004)	7283
Tool and Die Maker (2005)	7232
Transport Trailer Technician (2008)	7321
Truck and Transport Mechanic (2007)	7321
Welder (2004)	7265

# Requests for printed copies of National Occupational Analyses may be forwarded to:

Trades and Apprenticeship Division Workplace Partnership Directorate Human Resources and Skills Development Canada 140 Promenade du Portage, Phase IV, 5th Floor Gatineau, Quebec K1A 0J9

These publications can be ordered or downloaded online at: <u>www.red-seal.ca</u>. Links to Essential Skills Profiles for some of these trades are also available on this website.

To facilitate understanding of the occupation, the work performed by tradespersons is divided into the following categories:

the largest division within the analysis that is comprised of a **Blocks** 

distinct set of trade activities

distinct actions that describe the activities within a block **Tasks** distinct actions that describe the activities within a task Sub-Tasks

skills and knowledge that an individual must have to perform a Supporting

Knowledge and

**Abilities** 

sub-task

The analysis also provides the following information:

**Trends** changes identified that impact or will impact the trade including

work practices, technological advances, and new materials and

equipment

Context information to clarify the intent and meaning of tasks

**Related Components** a list of products, items, materials and other elements relevant to

the block

**Tools and Equipment** categories of tools and equipment used to perform all tasks in the

block; these tools and equipment are listed in Appendix A

The appendices located at the end of the analysis are described as follows:

Appendix A a non-exhaustive list of tools and equipment used in this trade

**Tools and Equipment** 

Appendix B definitions or explanations of selected technical terms used in the

Glossary analysis

Appendix C a list of acronyms used in the analysis with their full name

Acronyms

Appendix D the block and task percentages submitted by each jurisdiction, **Block and Task** and the national averages of these percentages; these national Weighting

averages determine the number of questions for each block and

task in the Interprovincial exam

Appendix E a graph which depicts the national percentages of exam

Pie Chart questions assigned to blocks

Appendix F a chart which outlines graphically the blocks, tasks and sub-tasks

**Task Profile Chart** of this analysis

### **Development of Analysis**

A draft analysis is developed by a committee of industry experts in the field led by a team of facilitators from Human Resources and Skills Development Canada. This draft analysis breaks down all the tasks performed in the occupation and describes the knowledge and abilities required for a tradesperson to demonstrate competence in the trade.

#### **Draft Review**

The National Occupational Analysis (NOA) development team then forwards a copy of the analysis and its translation to provincial and territorial authorities for a review of its content and structure. Their recommendations are assessed and incorporated into the analysis.

### Validation and Weighting

The analysis is sent to all provinces and territories for validation and weighting. Participating jurisdictions consult with industry to validate and weight the document, examining the blocks, tasks and sub-tasks of the analysis as follows:

examination that would cover the entire trade.

**TASKS** Each jurisdiction assigns a percentage of exam questions to each task within a

block.

**SUB-TASKS** Each jurisdiction indicates, with a YES or NO, whether or not each sub-task is

performed by skilled workers within the occupation in its jurisdiction.

The results of this exercise are submitted to the NOA development team who then analyzes the data and incorporates it into the document. The NOA provides the individual jurisdictional validation results as well as the national averages of all responses. The national averages for block and task weighting guide the Interprovincial Red Seal Examination plan for the trade.

This method for the validation of the NOA also identifies common core sub-tasks across Canada for the occupation. If at least 70% of the responding jurisdictions perform a sub-task, it shall be considered common core. Interprovincial Red Seal Examinations are based on the common core sub-tasks identified through this validation process.

### Definitions for Validation and Weighting

YES sub-task performed by qualified workers in the occupation in a specific

jurisdiction

NO sub-task not performed by qualified workers in the occupation in a specific

jurisdiction

**NV** analysis <u>N</u>ot <u>V</u>alidated by a province/territory

**ND** trade <u>Not Designated in a province/territory</u>

NOT sub-task, task or block performed by less than 70% of responding jurisdictions; these will not be tested by the Interprovincial Red Seal

**CORE** Examination for the trade

(NCC)

National average percentage of questions assigned to each block and task in

**Average** % Interprovincial Red Seal Examination for the trade

### Provincial/Territorial Abbreviations

NL Newfoundland and Labrador

NS Nova Scotia

PE Prince Edward Island
NB New Brunswick

QC Quebec
ON Ontario
MB Manitoba
SK Saskatchewan

AB Alberta

BC British Columbia
NT Northwest Territories

YT Yukon Territory

NU Nunavut



**SAFETY** 

Safe working procedures and conditions, accident prevention, and the preservation of health are of primary importance to industry in Canada. These responsibilities are shared and require the joint efforts of government, employers and employees. It is imperative that all parties become aware of circumstances that may lead to injury or harm. Safe learning experiences and work environments can be created by controlling the variables and behaviours that may contribute to accidents or injury.

It is generally recognized that safety-conscious attitudes and work practices contribute to a healthy, safe and accident-free work environment.

It is imperative to apply and be familiar with the Occupational Health and Safety (OH&S) Acts and Workplace Hazardous Materials Information System (WHMIS) Regulations. As well, it is essential to determine workplace hazards and take measures to protect oneself, co-workers, the public and the environment.

Safety education is an integral part of training in all jurisdictions. As safety is an imperative part of all trades, it is assumed and therefore it is not included as a qualifier of any activities. However, the technical safety tasks and sub-tasks specific to the trade are included in this analysis.

#### SCOPE OF THE AUTOMOTIVE PAINTER TRADE

"Automotive Painter" is this trade's official Red Seal occupational title approved by the Canadian Council of Directors of Apprenticeship (CCDA). This analysis covers tasks performed by an automotive painter whose occupational title has been identified by some provinces and territories of Canada under the following names:

	NL	NS	PE	NB	QC	ON	MB	SK	AB	ВС	NT	YT	NU
Auto Body Technician - Auto Body Refinisher									<b>\</b>				
Automotive Painter	✓	✓	✓	✓		✓						<b>✓</b>	
Automotive Refinishing Technician										<b>✓</b>			
Motor Vehicle Body Refinisher Sub-Trade								✓					
Motor Vehicle Body Repairer (Painter)							<b>✓</b>						
Motor Vehicle Body Repairer - Auto Body Refinisher											✓		

Automotive painters work on the surfaces of motor vehicles, primarily in restoring vehicles to their original condition following damage and subsequent auto body repair. Generally, automotive painting begins when body work has been completed. Some of the duties that an automotive painter completes include: removing exterior trim and hardware; removing layers of sub-coating; matching colours and mixing paints; preparing metal surfaces for painting by spot filling, sanding, and masking; applying primers, primer surfacers, enamels, clearcoats and urethanes; cleaning and polishing painted surfaces including removing and replacing decals; and applying anti-corrosive treatments.

Automotive painters use hand and power tools in their work. Commonly used tools are sanders and spray guns. Computers and related software may be used in some workplaces for computerized paint colour reading, generating paint formulas and tinting. In some workplaces, decals and graphics are produced by computerized equipment.

Journeypeople in this trade usually work indoors and can expect a work environment that includes paint fumes, dust and noise. Health and safety are important issues for automotive painters, as they are exposed to chemical (e.g. paints, compounds, solvents) and physical (e.g. spray guns, sanders) hazards. Ongoing safety training and a good knowledge of government safety standards and regulations are important in providing a safer working environment.

Many automotive painters work in close contact with motor vehicle body repairers who tend to work in auto body shops or dealerships. Automotive painting duties may overlap with motor vehicle body repairers' duties, particularly in small shops. In larger places of employment, automotive painters likely work as specialists, after body repairs have been completed. While they may work as part of the repair team, automotive painters tend to work independently.

Key attributes for people entering this trade include: mechanical aptitude; manual dexterity; good colour vision; the ability to do precise work that requires attention to detail; and an eye for creativity. Good physical condition and agility are important because the work often requires considerable standing, bending, crouching, kneeling and reaching.

Being an automotive painter is very self-rewarding. With experience, journeypersons have a number of career options, including supervisory or teaching/training in the field.

### OCCUPATIONAL OBSERVATIONS

The use of environmentally friendly materials is becoming more common in the trade. Regulations controlling their use and disposal are becoming more strict.

New painting equipment such as High Volume Low Pressure (HVLP) sprayers and higher calibre sprayers that apply paints more efficiently has decreased paint waste. The composition of paints has been one of the bigger changes that the industry has seen recently. The introduction of high-solid contents and water-borne paints has decreased the level of solvent fumes, as well as the use and disposal of solvents. Solvent recycling has in many cases dramatically decreased solvent waste and costs associated with this industry.

Other new technologies involve the use of Ultraviolet (UV) curing technology, direct-to-metal primer surfacers and cycle-time reduction clears.

Computer software is playing a major role in colour formula retrieval and assists in colour matching. While these high technology tools are helpful, they are only supplemental to the trained eye of an experienced professional automotive painter who is attuned to fine detail.

Because of the high capital expenditure required to set up a stand-alone paint shop, automotive painters tend not to be self-employed.

# **BLOCK A**

# OCCUPATIONAL SKILLS

Trends Electronic access to information such as manuals and updates becoming

more common. Increased use of digital spray guns and high transfer

efficiency spray equipment such as HVLP (High Volume Low Pressure), LVLP (Low Volume Low Pressure) and RP (Reduced

Pressure) resulting in less overspray. Increased use of fresh air supplied

respirators and power tools with dust extraction.

Context Occupational skills are repetitive general skills for many tasks

performed by an automotive painter.

Task 1 Uses documentation.

Related Technical manuals and bulletins, safety and environmental regulations, repair estimates, WHMIS documents, work orders.

Components (include, but not

limited to)

Computer, software.

ability to interpret paint codes

Tools and Equipment

Sub-task

1.01.05

1.01 Interprets vehicle information.

NL NS PΕ NB QC ON MB <u>SK</u> <u>AB</u> BC NT <u>YT</u> NU NV NVNV yes yes yes yes yes yes yes yes yes ves

1.01.01	knowledge of industry terminology
1.01.02	knowledge of vehicle manufacturers' makes and models
1.01.03	knowledge of vehicle information such as year of vehicle, VIN (vehicle identification number) and production date
1.01.04	ability to locate paint codes

Sub-t 1.02	ask	Into	erprets	technic	al manu	ials and	bullet	ins.				
<u>NL</u> NV	<u>NS</u> yes	<u>PE</u> yes	<u>NB</u> yes	<u>QC</u> yes	<u>ON</u> yes	MB yes	<u>SK</u> yes	<u>AB</u> yes	<u>BC</u> yes	<u>NT</u> yes	<u>YT</u> NV	<u>NU</u> NV
Suppo	orting k	<u> Knowle</u>	dge &	Abilitie	e <u>s</u>							
1.02.01	-	kno	wledge	of type	es of tecl	hnical n	nanuals	and bu	lletins			
1.02.02	2	kno	wledge	of loca	tion of 1	manuals	and bu	ılletins	in shop			
1.02.03	3	kno	wledge	of indu	ıstry ter	minolo	gy					
1.02.04	<u> </u>	abil	ity to a	ccess m	anuals a	and bull	etins in	electro	nic and	printed	format	:S
1.02.05	5	abil	ity to ir	iterpret	paint co	odes						
1.02.06	,	abil	ity to ir	iterpret	produc	t inforn	nation d	lata she	ets			
Sub-t 1.03	ask	Into	erprets	safety a	nd env	ironme	ntal reg	ulation	s.			
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	<u>NT</u>	<u>YT</u>	<u>NU</u>
NV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV
Suppo	orting k	<u> Knowle</u>	dge &	Abilitie	<u>es</u>							
1.03.01			wledge tem)	of WH	MIS (W	orkplac	e Haza:	rdous M	laterials	s Inform	nation	
1.03.02	2	kno	wledge	of juris	diction	al regul	ations					
1.03.03	3		wledge cedures		C (volati	ile orga	nic com	pounds	) and V	OC trac	cking	
1.03.04	Ł	kno	wledge	of type	es of pai	nt such	as wate	er-borne	and hi	gh-solic	ls	
1.03.05	5	kno	wledge	of stor	age requ	uiremer	ts befor	re and a	fter use			
1.03.06	·	kno	wledge	of rest	rictions	on use	and har	ndling o	f hazaro	dous wa	aste	
1.03.07	7	abil	ity to lo	cate M	SDS (Ma	aterial S	afety D	ata She	ets)			
1.03.08	3	abil	ity to a	ccess an	d apply	regula	tions in	electro	nic and	printed	format	s

Sub-ta 1.04	ask	Coı	ntribute	es to de	velopm	ent of r	epair es	stimate.				
<u>NL</u> NV	<u>NS</u> yes	<u>PE</u> no	NB no	<u>QC</u> yes	<u>ON</u> yes	MB yes	<u>SK</u> yes	<u>AB</u> yes	<u>BC</u> yes	NT yes	YT NV	<u>NU</u> NV
Suppo	orting k	<u>(nowle</u>	dge & .	<u>Abilitie</u>	<u>es</u>							
1.04.01		kno rep	_	of repa	ir techr	niques s	uch as b	olending	g, butt n	natching	g and sp	oot
1.04.02		abil	ity to id	lentify 6	extent o	f refinis	hing re	quired				
1.04.03	<b>.</b>		lity to id o-stage	lentify t	types of	paint fi	nish su	ch as tri	-colour	, single	stage ar	nd
1.04.04	:	abil	ity to co	ommun	icate wi	ith estin	nator					
Sub-t	ask											
1.05		Inte	erprets	work o	rders.							
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	<u>NT</u>	<u>YT</u>	<u>NU</u>
NV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV
Suppo	orting k	(nowle	dge & .	Abilitie	<u>es</u>							
1.05.01		kno	wledge	of wor	k order	formats	<b>S</b>					
1.05.02		kno	wledge	of indu	ıstry ter	minolo	gy					
1.05.03	<b>,</b>		C		•	sh proce						
1.05.04			wledge	-		-						
1.05.05			ity to fo			-						
1.00.00		uDII										

Task 2

Uses tools and equipment.

Technical manuals.

Related Components

(include, but not

*limited to)* 

Tools and

See Appendix A.

Equipment

Sub-task

2.01 Uses hand tools.

<u>NS</u> PE<u>NB</u> QC NL<u>ON</u> <u>MB</u> <u>SK</u> <u>AB</u> <u>BC</u> NT YT<u>NU</u> NV NV NV yes yes yes yes yes yes yes yes yes yes

### Supporting Knowledge & Abilities

2.01.01 knowledge of types of hand tools such as sanding, cutting, scraping, and

trim and accessory removal tools

2.01.02 knowledge of limitations of use

2.01.03 ability to maintain tools

2.01.04 ability to store tools

2.01.05 ability to recognize unsafe, worn, broken and defective tools

Sub-task

2.02 Uses power tools.

NLNS PENB QC ON MB SK AΒ BC NT ΥT NU NV NV NV yes yes yes yes yes yes yes yes yes yes

### Supporting Knowledge & Abilities

2.02.01 knowledge of types of power tools such as pneumatic and electric

2.02.02 knowledge of operating procedures

2.02.03 knowledge of limitations of use

2.02.04 ability to maintain tools

2.02.06 2.02.06			ity to st ity to re			e, worn,	broken	and de	fective t	tools		
Sub-t 2.03	ask	Use	es comp	uters.								
<u>NL</u> NV	<u>NS</u> yes	<u>PE</u> yes	<u>NB</u> yes	<u>QC</u> yes	<u>ON</u> yes	MB yes	<u>SK</u> yes	<u>AB</u> yes	<u>BC</u> yes	<u>NT</u> yes	<u>YT</u> NV	<u>NU</u> NV
Suppo	orting k	<u> Knowle</u>	dge &	<u>Abilitie</u>	<u>es</u>							
2.03.01	l		U			ardwar mixing,						eval
2.03.02	2		-		nforma iformati	tion suc	h as col	our for	mula, p	roduct i	nforma	tion,
2.03.03	3					ndustry	softwar	e				
Sub-t 2.04	ask	Use	es meas	uring e	quipme	ent.						
	ask <u>NS</u> yes	Use PE yes	es meas <u>NB</u> yes	<b>uring e</b> <u>QC</u> yes	<b>quipme</b> <u>ON</u> yes	ent.  MB yes	<u>SK</u> yes	AB yes	BC yes	NT yes	YT NV	<u>NU</u> NV
2.04 <u>NL</u> NV	<u>NS</u>	<u>PE</u> yes	<u>NB</u> yes	<u>QC</u> yes	ON yes	<u>MB</u>	· <u></u>					
2.04 <u>NL</u> NV	<u>NS</u> yes orting k	<u>PE</u> yes <u>Snowle</u> kno	<u>NB</u> yes dge &	OC yes Abilitie	ON yes es	<u>MB</u>	yes	yes	yes	yes	NV	NV
2.04  NL  NV  Suppo	<u>NS</u> yes orting k	<u>PE</u> yes <u>Knowle</u> kno	<u>NB</u> yes dge & owledge	OC yes Abilities of types	ON yes es es of me	MB yes	yes	yes nent suc	yes ch as sca	yes ales, pro	NV	NV
2.04 <u>NL</u> NV <u>Suppo</u> 2.04.01	<u>NS</u> yes orting k	PE yes (nowled known stick	<u>NB</u> yes dge & owledge	OC yes Abilities of types contained	ON yes es of meers es of sca	<u>MB</u> yes asuring	yes	yes nent suc	yes ch as sca	yes ales, pro	NV	NV
2.04 NL NV Suppo 2.04.01 2.04.02	NS yes orting k	PE yes Knowle kno stic kno	NB yes dge & owledge ks and o	OC yes  Abilities  of type contained of type of visc	ON yes es of meers es of sca	<u>MB</u> yes asuring	yes equipn	yes nent suc	yes ch as sca	yes ales, pro	NV	NV
2.04 NV Suppo 2.04.01 2.04.02 2.04.03	NS yes orting k	PE yes  Knowle  kno stic kno kno abil	NB yes  dge &  wledge ks and o  wledge wledge ity to ir	OC yes  Abilitie  of type containe of type of type of visc	ON yes es of meers es of sca	MB yes asuring les such	yes equipn as digi	yes nent suc	yes Th as sca	yes ales, pro	NV	NV
2.04 NL NV Suppo 2.04.01 2.04.02 2.04.03 2.04.04	NS yes orting k	PE yes  Knowle  kno stic kno kno abil	NB yes  dge &  wledge ks and o  wledge owledge ity to ir ity to o	OC yes  Abilitie  of type containe of type of visc nterpret	ON yes es of meers es of sca osity technic	MB yes asuring les such	yes equipn as digi als related	yes nent suc	yes Th as sca	yes ales, pro	NV	NV
2.04 NV Suppo 2.04.01 2.04.02 2.04.03 2.04.04 2.04.05	NS yes orting k	PE yes  Knowle  kno stic kno abil abil abil	NB yes  dge &  owledge ks and o  owledge ity to ir ity to o  ity to p	OC yes  Abilities  of type containe of type of visc nterpret perate content erform et up me	ON yes  es of me ers es of sca osity technic compute basic ca easuring	MB yes asuring les such	yes equipm as digi als related s	yes nent suc	yes Th as sca	yes ales, pro	NV	NV

Sub-t	ask											
2.05		Use	es perso	nal pro	tective	equipn	ent (PI	PE).				
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	QC	<u>on</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	NT	<u>YT</u>	<u>NU</u>
$\overline{NV}$	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV
Suppo	orting k	<u> Knowle</u>	dge &	<u>Abilitie</u>	<u>es</u>							
2.05.01	2.05.01 knowledge of types of PPE such as hearing, eye, skin and respiratory protection											
2.05.02		kno	wledge	of PPE	operati	ion						
2.05.03		kno	wledge	of wor	kplace s	safety a	nd heal	th regul	ations			
2.05.04		abil	ity to ir	nspect a	nd maii	ntain PF	PΈ					
2.05.05			ity to st									
2.05.06		abil	ity to re	ecogniz	e works	ite haza	ırds					
_ _Task	3	Org	ganizes	work.								
•	onen ide, bi	ts ut not		le, WH ials, pa		cuments	, abrasi	ves, sol	vents, c	leaners,	maskir	ıg
	Tools and Safety and first aid equipment, light source, communication equipment, computer.							oment,				
Sub-t 3.01	ask	Org	ganizes	materia	al.							
<u>NL</u> NV	<u>NS</u> yes	<u>PE</u> yes	<u>NB</u> yes	<u>QC</u> yes	<u>ON</u> yes	MB yes	<u>SK</u> yes	<u>AB</u> yes	<u>BC</u> yes	<u>NT</u> yes	<u>YT</u> NV	<u>NU</u> NV
Suppo	Supporting Knowledge & Abilities											
3.01.01		kno	wledge	of type	es of ma	terials s	such as	abrasive	es, clear	ners and	paints	

knowledge of material ordering procedures

ability to determine material required

3.01.02

3.01.03

3.01.04 3.01.05		ability to store and label material ability to dispose of waste material										
Sub-t 3.02	ask	Communicates with others.										
<u>NL</u> NV	<u>NS</u> yes	PENBQCONMBSKABBCNTYTyesyesyesyesyesyesNV								<u>NU</u> NV		
Suppo	orting I	<u> Knowle</u>	edge &	Abilitie	<u>es</u>							
3.02.01 3.02.02 3.02.03	2	knowledge of types of communication methods such as oral and written ability to use conflict resolution techniques ability to explain technical information in layperson's terms								n		
3.02.04	1	ability to communicate with other related professionals such as tradespeopl and appraisers							eople			
3.02.05	5	ability to mentor apprentices										
3.02.06	5	ability to operate communication equipment such as cellular phones, two- way radios and computers							WO-			
		wa	y radios	and co	mputer	S						
Sub-t 3.03	ask				mputer		nt.					
	ask <u>NS</u> yes						nt. <u>SK</u> yes	AB yes	BC yes	NT yes	YT NV	<u>NU</u> NV
3.03 <u>NL</u> NV	<u>NS</u> yes	<b>Ma</b>	intains <u>NB</u> yes	<b>safe wo</b> <u>QC</u> yes	ON yes	ironmer <u>MB</u>	<u>SK</u>		· · · · · · · · · · · · · · · · · · ·	<u> </u>		
3.03  NL  NV  Suppo	<u>NS</u> yes orting I	Ma <u>PE</u> yes <nowle< td=""><td>intains  NB yes edge &amp;</td><td>safe wo <u>QC</u> yes Abilitie</td><td>ON yes</td><td>ironmer <u>MB</u> yes</td><td><u>SK</u> yes</td><td>yes</td><td>· · · · · · · · · · · · · · · · · · ·</td><td><u> </u></td><td></td><td></td></nowle<>	intains  NB yes edge &	safe wo <u>QC</u> yes Abilitie	ON yes	ironmer <u>MB</u> yes	<u>SK</u> yes	yes	· · · · · · · · · · · · · · · · · · ·	<u> </u>		
3.03 <u>NL</u> NV <u>Suppo</u> 3.03.01	<u>NS</u> yes orting I	Ma <u>PE</u> yes <nowle< td=""><td>intains  NB yes edge &amp;</td><td>safe wo</td><td>ON yes</td><td>ironmer <u>MB</u> yes</td><td><u>SK</u> yes</td><td>yes</td><td>· · · · · · · · · · · · · · · · · · ·</td><td><u> </u></td><td></td><td></td></nowle<>	intains  NB yes edge &	safe wo	ON yes	ironmer <u>MB</u> yes	<u>SK</u> yes	yes	· · · · · · · · · · · · · · · · · · ·	<u> </u>		
3.03 <u>NL</u> NV <u>Suppo</u> 3.03.01 3.03.02	NS yes orting F	Ma <u>PE</u> yes <nowled knowled="" knowled<="" td=""><td>intains  NB yes edge &amp;</td><td>safe wo</td><td>ON yes</td><td>ironmer <u>MB</u> yes</td><td><u>SK</u> yes S and M</td><td>yes ISDS</td><td>yes</td><td><u> </u></td><td></td><td></td></nowled>	intains  NB yes edge &	safe wo	ON yes	ironmer <u>MB</u> yes	<u>SK</u> yes S and M	yes ISDS	yes	<u> </u>		
3.03 <u>NL</u> NV <u>Suppo</u> 3.03.01	NS yes orting F	Ma  PE yes  Knowlee  knowlee  knowlee  knowlee	intains  NB yes edge & owledge owledge	safe wo	ON yes tions of tion of s	ironmer  MB  yes  WHMI  ghts and	SK yes S and M I respor	yes ISDS asibilitie	yes	yes	NV	NV
3.03 NL NV Suppo 3.03.01 3.03.02 3.03.03 3.03.04	NS yes orting F	Ma  PE yes  Knowlee  knowlee  knowlee  knowlee  knowlee  knowlee	intains  NB yes edge & owledge owledge owledge	safe wo QC yes Abilitie of loca of PPE of wor of loca ers, spil	ON yes tions of tion of stion of stions and stices.	ironmer  MB  yes  WHMI  ghts and safety ed	SK yes S and M I respor quipment aid kit	yes ISDS asibilitie	yes	yes	NV	NV
3.03 NL NV Suppo 3.03.01 3.03.02 3.03.03	NS yes orting F	Ma  PE yes  Knowlee  knowlee	intains  NB yes  edge & owledge owledge owledge	safe wo	ork envious of yes tion of sel kits an ergency	ironments  MB yes  WHMI  ghts and safety ed d first a	SK yes S and M I respor quipment and kit ures	yes ISDS nsibilitie	yes es as eye v	yes wash sta	NV	NV
3.03 NL NV Suppo 3.03.01 3.03.02 3.03.03 3.03.04 3.03.05	NS yes orting b	Ma  PE yes  Knowlee  knowlee	intains  NB yes  edge &  owledge owledge inguishe owledge	safe wo	ork envious of yes tion of sel kits an ergency	MB yes  WHMI safety edd first a	SK yes S and M I respor quipment and kit ures	yes ISDS nsibilitie	yes es as eye v	yes wash sta	NV	NV

3.03.09	ability to recognize personal injury hazards
3.03.10	ability to identify potential hazards
3.03.11	ability to operate ventilation systems
3.03.12	ability to maintain and use fire suppression equipment
Sub-tasl	<

Sub-task	
3.04	Performs inspections.

<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	<u>NT</u>	<u>YT</u>	<u>NU</u>
NV	yes	NV	NV									

3.04.01	ability to verify tasks listed in repair estimate
3.04.02	ability to perform sensory inspection at appropriate times of repair
3.04.03	ability to identify paint defects such as runs, dust nibs, colour matches and mottling

# **BLOCK B**

# **VEHICLE PREPARATION**

Trends Increased use of plastics and aluminium affecting finish coat process

and preparation. New processes include UV and infrared curing

techniques. Products being introduced include low VOC products, finer

grit paper, water-borne materials and faster-drying materials.

Context Automotive painters are required to have the knowledge and skills to

apply various types of topcoat to a vehicle.

### Task 4 Performs initial preparation.

Related Trim, accessories, fasteners, cleaners, WHMIS documents.

Components (include, but not limited to)

Tools and Safety and first aid equipment, standard tool kit. Equipment

Sub-task

4.01 Cleans vehicle.

QC NL <u>NS</u> PE <u>NB</u> ON MB <u>SK</u> <u>AB</u> BC NT ΥT NU NVNVNV yes yes yes yes yes yes yes yes yes yes

4.01.01	knowledge of types of cleaners such as soap, water and degreaser
4.01.02	knowledge of cleaning techniques
4.01.03	knowledge of types of contaminants
4.01.04	ability to select appropriate cleaner for various substrates such as metals and plastics
4.01.05	ability to select appropriate cleaner to remove various contaminants
4.01.06	ability to dispose of cleaning materials

Sub-t 4.02	ask	Reı	noves t	rim and	l access	ories.						
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	<u>NT</u>	<u>YT</u>	<u>NU</u>
NV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV
Supporting Knowledge & Abilities												
4.02.01	4.02.01 knowledge of types of trim and accessories and their method of attachment										nent	
4.02.02	<u>)</u>	kno	wledge	of type	es of fas	teners						
4.02.03	3	kno	wledge	of effe	ct of ten	nperatu	re on re	moval o	of comp	onents		
4.02.04	Į	kno	wledge	of basi	c vehicl	e desig	n					
4.02.05	5	abi	lity to se	elect ap	propria	te tools						
4.02.06	5		lity to ic I metal	lentify	compos	ition of	trim an	d access	sories sı	ıch as p	lastic, g	lass
4.02.07	7	abi	lity to h	andle a	nd store	e remov	ed trim	and acc	cessorie	s		
Task	ζ 5	Pre	pares s	urface.								
(inclu	ted ponen ude, bl ed to)				cle surfa ndpapei		-		oating r	emover	, maski	ng
	Tools and Safety and first aid equipment, pneumatic sanders, grinder, media blasting equipment, air equipment, file, heat gun, masking cart, sanding blocks, chemical paint strippers.											
Sub-t	ask											
5.01		Rej	pairs im	perfect	ions.							
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	<u>NT</u>	<u>YT</u>	<u>NU</u>
NV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV
Suppo	orting l	<u> Knowle</u>	dge &	Abilitie	es_							
5.01.01			owledge	of type	es of im	perfection	ons suc	h as doo	or dings	, rock cl	hips and	d

scratches

5.01.02	knowledge of repair techniques such as feather edging, stripping and media blasting											
5.01.03		ability to identify problems with existing finish										
5.01.04		ability to identify stripping methods such as chemical and mechanical										
5.01.05		ability to identify substrate such as metal, plastic and composite										
5.01.06	1		-	-	extent o			•		•		
			J	J		•						
Sub-ta	ask											
5.02		Ma	sks veh	icle.								
<u>NL</u>	<u>NS</u>	PE	<u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	NT	YT	<u>NU</u>
$\overline{\text{NV}}$	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	$\overline{NV}$	$\overline{NV}$
Cuppo	rtina k	(novido	dae 0	Λ h:!!:+!.	26							
<u> </u>	or ting r	<u> </u>	dge & .	ADIIILIE	<u> </u>							
5.02.01			_			sking m	aterials	s such a	s paper,	tape, fo	oam, pla	astic
5 02 02	sheeting and spray mask											
5.02.02	knowledge of masking procedure for water-borne paints								aair			
5.02.03		ability to select size of tape and masking materials best suited to the repair ability to apply spray mask										
			-		-		a taabn	ianos si	ah as a	dan mar	roreo in	nore
5.02.05			l back m		a appiy	maskin	g tecnn	iques si	ich as e	age, rev	erse, in	ners
5.02.06			-	-	-	d tape d	ue to ex	cess air	moven	nent fro	m wate	r-
		bor	ne dryir	ng proc	ess							
Sub-ta	ask											
5.03		Str	ps surf	ace.								
<u>NL</u> NV	NS Was	<u>PE</u>	NB Was	<u>QC</u>	<u>ON</u>	MB Was	<u>SK</u>	<u>AB</u>	BC	NT Was	<u>YT</u> NV	<u>NU</u> NV
INV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	1 <b>N V</b>	INV
Suppo	rting k	<u> Knowle</u>	dge & .	<u>Abilitie</u>	<u>es</u>							
5.03.01			wledge dia blas		es of stri	ipping r	nethods	s such a	s chemi	cal, med	chanical	and
5.03.02				O	es of me	dia blas	ting su	ch as sai	nd, sod:	a and n	astic be	ads
5.03.03			wledge	, ,			9 - 22		-,	P		
5.03.04			O		substrat	æ						
			,	) -								

5.03.05	ability to prepare surrounding area prior to stripping
5.03.06	ability to select cleaning procedure for use after stripping
5.03.07	ability to handle, store and dispose of stripping material

Sub-t 5.04	ask	San	ıds surf	ace.								
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	MB	<u>SK</u>	<u>AB</u>	<u>BC</u>	<u>NT</u>	<u>YT</u>	<u>NU</u>
NV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV

5.04.01	knowledge of types of abrasives
5.04.02	knowledge of sanding techniques such as block, back and final sanding
5.04.03	knowledge of adhesion capability of materials to be applied
5.04.04	ability to select appropriate grit according to substrate, material being used and repair technique
5.04.05	ability to select and perform sanding methods such as wet, dry, machine and hand

_	
Task 6	Applies repair materials.
Related Components (include, but r limited to)	Vehicle exterior surface, fillers, primers, primer surfacers, adhesion promoters, flex additives, sandpaper, sanding paste, chip guard materials, masking materials, WHMIS documents.
Tools and Equipment	Safety and first aid equipment, schutz gun, sanding blocks, scratch pads, sponge blocks, dust extraction systems, pneumatic sanders, plastic spreaders.

Sub-t 6.01	ask	Ap	plies fil	lers.								
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	MB	<u>SK</u>	<u>AB</u>	<u>BC</u>	<u>NT</u>	<u>YT</u>	<u>NU</u>
NV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV

### Supporting Knowledge & Abilities

6.01.01	knowledge of types of fillers such as polyester and glazing putties
6.01.02	knowledge of types of substrates such as plastic, composites and metals
6.01.03	knowledge of product application techniques
6.01.04	knowledge of product curing times
6.01.05	knowledge of product working time
6.01.06	knowledge of role of environmental conditions on working and curing times
6.01.07	knowledge of limitation of use of fillers
6.01.08	ability to select repair material for substrate
6.01.09	ability to prepare surface prior to application
6.01.10	ability to mix fillers as per manufacturers' specifications
6.01.11	ability to estimate quantity of filler

Sub-t 6.02	ask	Ap	plies pr	imer ar	nd prim	er surfa	icers.					
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	NT	<u>YT</u>	<u>NU</u>
NV	yes	yes	NV	NV								

6.02.01	knowledge of types of primers such as etch and epoxy
6.02.02	knowledge of types of primer surfacers such as two part primer surfacers, tintable and UV cure primer
6.02.03	knowledge of application techniques such as spray gun, roll-on, spreadable and aerosol
6.02.04	knowledge of types of adhesion promoters
6.02.05	knowledge of limitations of primers and primer surfacers
6.02.06	knowledge of flash-off times, cure times, induction times and pot life
6.02.07	ability to select and mix appropriate primer and primer surfacer for substrate and topcoat
6.02.08	ability to use flex additives for flexible substrate
6.02.09	ability to handle, store and dispose of primer and primer surfacers

Sub-ta	ask											
6.03												
<u>NL</u>	<u>NS</u>	PE	<u>NB</u>	QC	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	NT	<u>YT</u>	NU
NV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV
Supporting Knowledge & Abilities												
6.03.01	6.03.01 knowledge of sandpaper grit											
6.03.02	<u>-</u>	kno	wledge	of guid	de coat ı	ısage						
6.03.03	}	kno	wledge	of uses	of sand	ding pas	ste					
6.03.04	Ŀ	kno	wledge	of sand	ding me	thods s	uch as v	vet, dry	, machi	ne and l	hand	
6.03.05	6.03.05 knowledge of sanding materials such as dry and wet sandpaper and scratch pads										eratch	
6.03.06	· )	abil	lity to se	elect gri	t for top	ocoat to	be appl	ied				
6.03.07	7	abil	lity to p	repare a	area for	blendin	ıg					
Sub-t	ack											
Sub-ta 6.04	ask	Ap	plies ch	ip guai	·d.							
	ask <u>NS</u> yes	Ap <sub>1</sub> PE yes	plies ch <u>NB</u> yes	i <b>p gua</b> i <u>QC</u> yes	od. ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT yes	YT NV	<u>NU</u> NV
6.04 <u>NL</u> NV	<u>NS</u> yes	<u>PE</u> yes	<u>NB</u>	OC yes	<u>ON</u> yes							
6.04 <u>NL</u> NV	<u>NS</u> yes orting k	<u>PE</u> yes (nowle	<u>NB</u> yes	<u>QC</u> yes Abilitie	ON yes	yes	yes	yes	yes	yes	NV	NV
6.04  NL  NV  Suppo	<u>NS</u> yes orting k	<u>PE</u> yes <u>Knowle</u> kno	<u>NB</u> yes	QC yes Abilitie	ON yes es	yes p guard	yes materi	yes als such	yes n as wat	yes er-born	NV	NV
6.04 NL NV Suppo	<u>NS</u> yes orting k	<u>PE</u> yes Knowle kno	<u>NB</u> yes edge & owledge	QC yes Abilities of types	ON yes es es of chi	yes p guard	yes I materi	yes als such paintab	yes  as wat le chip {	yes er-born guard	NV	NV
6.04 NL NV Suppo 6.04.01 6.04.02	NS yes orting k	PE yes Knowle kno kno	NB yes edge & owledge	QC yes Abilities of types of uses	ON yes es of chi s of pair	yes p guard ntable are e drying	yes I materi nd non- timefra	yes als such paintab ames for	yes  as wat le chip {	yes er-born guard	NV	NV
6.04 NL NV Suppo 6.04.01 6.04.02 6.04.03	<u>NS</u> yes orting k	PE yes  Knowle  kno kno kno kno	NB yes edge & owledge owledge	OC yes  Abilities  of type  of uses  of app	ON yes es of chi s of pair ropriate tations	yes p guard ntable are e drying	yes I materi nd non- timefra	yes als such paintab ames for	yes  as wat le chip {	yes er-born guard	NV	NV
6.04 NU Suppo 6.04.01 6.04.02 6.04.03 6.04.04	NS yes orting k	PE yes  Knowle  kno kno kno kno abil	NB yes  dge &  owledge  owledge  owledge	OC yes Abilities of type of uses of app of limi	ON yes es of chi s of pair ropriate tations of	yes  p guard  ntable ar  e drying  of use o	yes I materi nd non- timefra	yes als such paintab ames for	yes  as wat le chip {	yes er-born guard	NV	NV
6.04 NL NV Suppo 6.04.01 6.04.02 6.04.03 6.04.04 6.04.05	NS yes orting k	PE yes  Knowle  kno kno kno abil	NB yes  dge &  owledge  owledge  owledge	OC yes Abilities of types of app of limities se schure	ON yes es of chi s of pair ropriate tations of tz gun substrat	yes  p guard  ntable and  e drying  of use of	yes materi nd non- timefra f chip g	yes als such paintab nmes fon uard	yes  as wat le chip {	yes er-born guard	NV	NV

# BLOCK C

# REFINISHING

Trends The relationship between global environment issues and consumer

demand has been a catalyst for innovative VOC compliant product development. These technological advancements provide a safer, more

efficient working environment.

Context Automotive painters are required to have the knowledge and skills to

apply various types of topcoat to a vehicle.

### Task 7 Prepares equipment.

Related Refinish products, lubricants, WHMIS documents.

Components (include, but not limited to)

Tools and Safety and first aid equipment, standard tool kit, refinishing equipment,

Equipment regulators, manometer, thermometer, stands, hangers.

### Sub-task

7.01 **Performs spray gun setup.** 

NS QC NLPE<u>NB</u> ON MB <u>SK</u> <u>AB</u> <u>BC</u> NT YTNU NV yes yes NV NV yes yes yes yes yes yes yes yes

7.01.01	knowledge of types of refinish products
7.01.02	knowledge of types of refinish equipment
7.01.03	knowledge of air pressure and air volume and their effects
7.01.04	knowledge of paint gun components
7.01.05	knowledge of pneumatic components such as regulators, air transformers and separators
7.01.06	knowledge of product viscosity

7.01.07	knowledge of lubricants
7.01.08	ability to select equipment for application
7.01.09	ability to perform setup procedures as per manufacturers' specifications
7.01.10	ability to troubleshoot equipment problems

Sub-t 7.02	ask	Pre	pares s <sub>l</sub>	pray bo	oth.							
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	MB	<u>SK</u>	<u>AB</u>	<u>BC</u>	<u>NT</u>	<u>YT</u>	<u>NU</u>
NV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV

7.02.01	knowledge of booth types and construction
7.02.02	knowledge of operating temperatures and their effect on topcoat quality
7.02.03	knowledge of air drying systems for water-borne paints
7.02.04	knowledge of effect of positive and negative booth pressures
7.02.05	ability to adjust air makeup unit
7.02.06	ability to ensure spray booth is clean and dust-free
7.02.07	ability to set up booth based on job requirements
7.02.08	ability to utilize booth space
7.02.09	ability to adjust air flow in spray booth

Task 8	Prepares refinishing materials.
Related Components (include, but n limited to)	Vehicle, paint, solvents, activators, WHMIS documents.
Tools and Equipment	Safety and first aid equipment, mixing scales, computers and product- specific software, microfiche reader, paint gun, mixing sticks, measuring sticks, mixing cups, paint strainers, spray out cards, colour corrective bulbs, variant cards, spectrophotometer, paint shakers.

Sub-ta 8.01	ask	Mis	xes pair	<b>1</b>								
0.01		1411	ces pari									
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	NT	<u>YT</u>	<u>NU</u>
NV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV
Supporting Knowledge & Abilities												
8.01.01		knowledge of scale and ratios										
8.01.02		kno	wledge	of visc	osity sca	ales						
8.01.03	,	kno	wledge	of low	and hig	sh stren	gth colo	ours				
8.01.04	:	kno	wledge	of safe	ty proce	edures						
8.01.05	;	abil	ity to u	se paint	mixing	g equipr	nent su	ch as ag	itators	and scal	les	
8.01.06	8.01.05 ability to use paint mixing equipment such as agitators and scales 8.01.06 ability to select solvents, reducers and activators according to ambient conditions (humidity/temperature) and job size											
8.01.07	,	abil	ity to d	etermin	e quant	ity of p	aint req	uired fo	r the jo	b		
8.01.08	;	abil	ity to m	ix pain	t accord	ling to C	Original	Equipr	nent Ma	anufacti	urer (OI	EM)
		pai	nt code									
Sub-ta	ask											
8.02	ask	Per	forms c	olour n	natching	g.						
							07.5					
<u>NL</u> NV	NS Voc	PE Voc	NB Wos	QC Wos	<u>ON</u>	MB WOS	SK Wos	<u>AB</u>	BC Wos	NT vos	<u>YT</u> NV	<u>NU</u> NV
1 N V	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	1 N V	1 N V
Suppo	rting k	<u> (nowle</u>	dge &	<u>Abilitie</u>	<u>es</u>							
8.02.01		kno	wledge	of colo	ur theo	ry such	as chro	ma, hue	and va	llue		
8.02.02		kno	wledge	of met	amerisn	n (role c	of light i	in colou	r perce <sub>l</sub>	otion)		
8.02.03	}	kno	wledge	of face	, pitch a	ınd flasl	n of a co	olour				
8.02.04	:		wledge our mat		of air p	ressure,	tempe	rature a	nd solv	ent sele	ctions o	n
8.02.05	;	kno	wledge	of pair	t comp	onents s	such as	pearls, 1	mica an	d metal	flakes	
8.02.06	•	kno	wledge	of mul	ti coat t	echnolo	gy					
8.02.07	,	kno	wledge	of pair	it code v	variance	es					
8.02.08	}	kno	wledge	of met	hods to	obtain i	formula	ıs				
8.02.09	•		ity to u ain forn		nt card	s, specti	ophoto	meter a	nd tech	nical su	pport to	)

8.02.10	ability to mix colour with an intermix system
8.02.11	ability to perform test panels
8.02.12	ability to adjust paint to match vehicle colour
8.02.13	ability to use spray technique to alter the mixed colour
8.02.14	ability to set up and adjust refinishing spray equipment

## Task 9

### Applies refinishing materials.

Related
Components
(include, but not limited to)

Vehicle, sealers, additives, refinishing materials, reducers, activators, accelerators, WHMIS documents.

Tools and Equipment

Safety and first aid equipment, standard tool kit, refinishing equipment, water-borne equipment, air compressor, tack cloths, moisture trap, regulators, anti-static devices, thermometer, stands, step ladders,

hangers.

### Sub-task

9.01 **Applies sealers.** 

<u>NL</u> <u>NS</u> PE <u>NB</u> <u>QC</u> <u>ON</u> <u>MB</u> <u>SK</u> <u>AB</u> <u>BC</u> <u>NT</u> <u>YT</u> <u>NU</u> NV NVNV yes yes yes yes yes yes yes yes yes yes

9.01.01	knowledge of types of sealers such as tintable, non-tintable and plastic
9.01.02	knowledge of types of seam sealers such as brush-on, ribbon and sprayable
9.01.03	knowledge of flash-off times
9.01.04	knowledge of types of additives
9.01.05	knowledge of the role of sealers in the refinishing process
9.01.06	ability to select sealers according to compatibility with substrate materials
9.01.07	ability to spray sealer in an even and consistent pattern
9.01.08	ability to select and use PPE such as personal fresh air system, gloves and paint suits

Sub-task 9.02 Applies topcoat materials. <u>NL</u> <u>QC</u> <u>SK</u> <u>NS</u> PE <u>NB</u> <u>ON</u> <u>MB</u> <u>AB</u> <u>BC</u>  $\underline{NT}$ <u>YT</u> <u>NU</u> NV NVNV yes yes yes yes yes yes yes yes yes yes

9.02.01	knowledge of types of topcoats
9.02.02	knowledge of types of additives and their applications
9.02.03	knowledge of spray gun techniques and setups
9.02.04	knowledge of types of substrates
9.02.05	knowledge of reducers, activators and accelerators and their application
9.02.06	knowledge of forced drying and forced curing
9.02.07	knowledge of drying times of materials for two-toning and denibbing
9.02.08	knowledge of contaminants
9.02.09	knowledge of blending techniques such as drop coat, fan coat and orientation coat
9.02.10	ability to diagnose and correct paint faults such as fish-eyes, dry spray, tiger stripes and mottling
9.02.11	ability to select and use PPE such as respirators, gloves and paint suits
9.02.12	ability to select and use cleaning materials such as tack cloths and low-static solvents
9.02.13	ability to pre-wash vehicle
9.02.14	ability to determine coverage of topcoat materials
9.02.15	ability to use computers and programs

Task 10

Maintains refinishing equipment.

Related Components (include, but not limited to) Spray booth filters, cleaning products, WHMIS documents.

Tools and Equipment Safety and first aid equipment, standard tool kit, refinishing equipment, cleaning brushes and equipment, pressure washers, automatic gun washing system, air compressor, blow gun, brooms, floor squeegees, solvent recyclers.

Sub-task 10.01 Maintains spray booth. NLNS PΕ <u>NB</u> QC <u>SK</u> <u>AB</u> <u>BC</u> <u>NT</u> YΤ NU ON MB NV yes NV NV yes yes yes yes yes yes yes yes yes

#### Supporting Knowledge & Abilities

10.01.01 knowledge of spray booth maintenance procedures such as changing filters, changing lights and cleaning glass 10.01.02 knowledge of types of booth coatings 10.01.03 knowledge of spray booth design 10.01.04 knowledge of different lighting types 10.01.05 knowledge of PPE 10.01.06 ability to apply booth coatings 10.01.07 ability to follow and document regular booth maintenance schedule 10.01.08 ability to troubleshoot problems 10.01.09 ability to apply safe working practices 10.01.10 ability to adjust and maintain air diffuser

Sub-task 10.02 Maintains spray equipment. <u>NL</u> <u>NS</u> <u>PE</u> <u>NB</u> QC <u>ON</u> <u>MB</u> <u>SK</u> <u>AB</u> <u>BC</u> <u>NT</u> <u>YT</u> NU NVNVNV yes yes yes yes yes yes yes yes yes yes

10.02.01	knowledge of types of spray equipment such as pressure pot, and HVLP
10.02.02	knowledge of spray gun components such as air caps, packings, fluid needles and fluid tips
10.02.03	knowledge of cleaning products and equipment
10.02.04	knowledge of PPE
10.02.05	knowledge of spray equipment cleaning procedures
10.02.06	knowledge of contaminants such as silicone and their possible negative effect
10.02.07	knowledge of spray equipment storage procedures
10.02.08	ability to troubleshoot spray faults such as fluttering and inconsistent spray patterns
10.02.09	ability to apply safe working practices
10.02.10	ability to identify contaminants
10.02.11	ability to replace worn or damaged parts
10.02.12	ability to service spray gun
10.02.13	ability to maintain compressors, moisture traps and air makeup system
10.02.14	ability to use spray gun washer

# BLOCK D

#### PRE-DELIVERY

**Trends** 

Increased use of colour-coordinated trim, accessories and computer-cut graphics. Increasing customer expectations, especially vehicle cleanliness. Many of the pre-delivery tasks are performed by designated detailers who communicate with painters. More sophisticated polishing techniques and products.

Context

Automotive painters are required to have the knowledge and skills to prepare the vehicle for delivery.

#### Task 11

#### Carries out quality assurance check.

Related Vehicle, WHMIS documents, sandpaper, polish, masking materials.

Components

(include, but not limited to)

Tools and Equipment Safety and first aid equipment, razor blade, razor blade holder, sanding

block, polisher, run-nib files.

#### Sub-task

11.01 Removes surface imperfections.

NL NS PΕ NB QC ON MB <u>SK</u> <u>AB</u> BC NT NU NVNV NVyes yes yes yes yes yes yes yes yes yes

11.01.01	knowledge of surface imperfections such as runs, sags, dust nibs, dry spray and orange peel
11.01.02	knowledge of types of topcoat and their limitations of repair
11.01.03	knowledge of types and grits of polish
11.01.04	knowledge of process to remove imperfections
11.01.05	ability to identify imperfections

	)6	abil	ity to se	elect tec	hnique	for rem	oval					
11.01.0	)7	ability to remove overspray from vehicle										
11.01.0	)8	ability to determine cure times of finish prior to topcoat repair										
11.01.0												
			J									
Sub-t												
11.02	) -	Ren	noves n	nasking	g materi	als.						
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	NT	<u>YT</u>	<u>NU</u>
NV	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV
Suppo	orting k	Knowle	dge &	Abilitie	es							
11.02.0	)1	kno	wledge	of type	es of ma	sking n	aterials	3				
11.02.0	)2	kno	wledge	of app	lication	techniq	ues					
11.02.0	)3	kno	wledge	of rem	oval tec	hniques	3					
11.02.0	)4	kno	wledge	of whe	en to rer	nove m	asking 1	naterial	.S			
11.02.0	)5	kno	wledge	of cont	taminan	its such	as silico	ne and	their po	ossible 1	negative	effect
11.02.0	)6	abil	ity to re	emove r	nasking	; materi	als with	out dar	naging	refinish	ed surfa	ace
- Task	: 12	Per	forms o	letailin	Ω.							
Task	: 12	Per	forms d	letailin	g.							
Task		Per			g.	cessorie	s, decals	s, stripir	ng, intei	rior com	nponent	S,
Relat			Exteri	or trim	C			s, stripir	ng, intei	rior com	nponent	s,
Relat Comp (inclu	ted ponent ude, bu	ts	Exteri	or trim	and acc			s, stripir	ng, inter	rior com	nponent	S,
Relat Comp	ted ponent ude, bu	ts	Exteri	or trim	and acc			s, stripir	ng, inter	rior com	nponent	S,
Relat Comp (inclu	ted ponent ude, bu ed to)	ts	Exteri cleane	or trim ers, WH	and acc	cument	S.	•			•	
Relati Comp (inclu- limite	ted ponent ude, bu ed to) s and	ts	Exteri cleane Safety	or trimers, WH	and acc	cument	S.	•			•	
Relati Comp (inclu- limite	ted ponent ude, bu ed to)	ts	Exteri cleane	or trimers, WH	and acc	cument	S.	•			•	
Relati Comp (inclu- limite	ted ponent ude, bu ed to) s and	ts	Exteri cleane Safety	or trimers, WH	and acc	cument	S.	•			•	
Relati Comp (inclu- limite	ted conent ude, bu ed to) s and	ts	Exteri cleane Safety	or trimers, WH	and acc	cument	S.	•			•	
Relati Comp (inclu- limite	ted ponent ude, bu ed to) s and pment	ts	Exteri cleane Safety	or trimers, WH	and acc	cument	S.	•			•	
Relati Comp (inclu- limite Tools Equip	ted ponent ude, bu ed to) s and pment ask	ts ut not	Exteri cleane Safety equip	or trimers, WH	and acc	cument	S.	•			•	
Relati Comp (inclu- limite Tools Equip	ted ponent ude, bu ed to) s and pment ask	ts ut not	Exteri cleane Safety equip	or trimers, WH	and acc	cument	S.	•			•	

Supporting	Knowledge	& Abilities

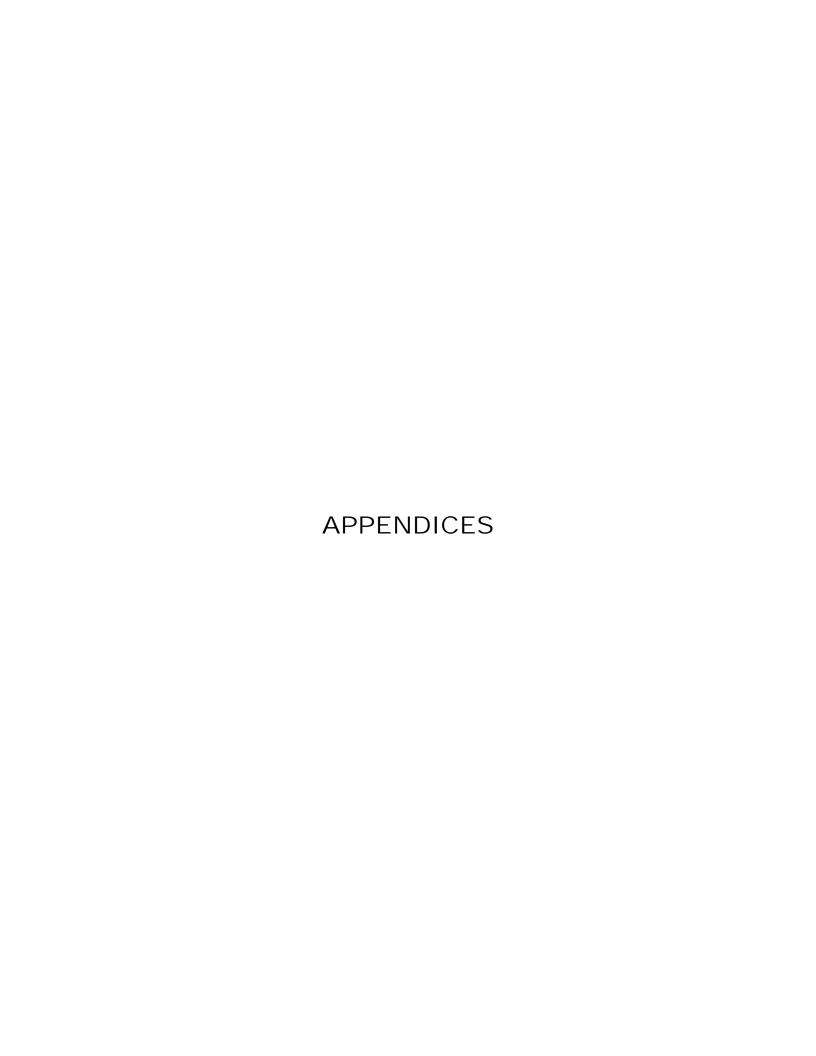
12.01.0	١1	1	1 1	- ( 1	C 1 !	1 .						
			knowledge of types of trim and accessories									
12.01.0			knowledge of types of fasteners									
12.01.0			knowledge of basic vehicle construction ability to install trim in proper location and sequence									
12.01.0			•		-	-		-	ence			
12.01.0	)5	abil	lity to u	se adhe	sives an	ıd two-s	ided ta	pe				
12.01.0	)6	abil	lity to cl	ean trin	n and a	ccessori	es prior	to appl	ications	6		
12.01.0	)7		lity to ir	stall co	mponer	nts and	accesso	ries witl	hout da	maging	vehicle	
		fini	sh									
Sub-t	ask											
12.02		Ap	plies de	cals an	d stripi	ng.						
		1.	•		1	O						
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u>	<u>SK</u>	<u>AB</u>	<u>BC</u>	<u>NT</u>	<u>YT</u>	<u>NU</u>
NV	yes	no	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV
Suppo	ortina k	(nowle	edge &	Abilitie	es							
12.02.0	)1	kno	wledge	of type	es of dec	als and	striping	g such a	s vinyl	graphic	s and n	ame
		pla	_	J 1			1	,	,	0 1		
12.02.0	)2	kno	wledge	of insta	allation	method	.S					
12.02.0	)3		knowledge of installation methods ability to clean surface prior to application									
		abi	lity to cl	ean sur	ability to use heating equipment							
12.02.0	)4		-		_	_	рисацо	II				
12.02.0 12.02.0		abil	-	se heati	ng equi	pment			nstall de	ecals and	d vinyl	
		abil abil	lity to u	se heati	ng equi	pment			nstall de	ecals and	d vinyl	
	)5	abii abii gra	lity to us	se heati se deter	ng equi	pment ater and			ıstall d€	ecals and	d vinyl	
12.02.0	)5 )6	abil abil gra abil	lity to us lity to us phics	se heati se deter emove a	ng equi gent, w	pment ater and	d squeeg	gee to ir			•	ıg
12.02.0 12.02.0	)5 )6	abil abil gra abil abil	lity to use lity to use phics lity to re	se heati se deter emove a stall de	ng equi gent, w hir bubb	pment ater and les d stripir	d squeeş	gee to ir			•	ng
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12.02.0 12.02.0 12.02.0	)6 )7	abil abil gra abil abil	lity to use lity to use phics lity to relative to ir	se heati se deter emove a stall de	ng equi gent, w hir bubb	pment ater and les d stripir	d squeeş	gee to ir			•	ng
12.02.0 12.02.0 12.02.0 Sub-t	)5 )6 )7 ask	abii gra abii abii refi	lity to use phics lity to reality to irrusted and single second se	se heati se deter emove a stall de surface,	ng equi gent, w air bubb cals and decals	pment ater and les l stripir and stri	d squeeş	gee to ir			•	ng
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12.02.0 12.02.0 12.02.0 Sub-t	)5 )6 )7 ask	abii gra abii abii refi	lity to use phics lity to reality to irrusted and single second se	se heati se deter emove a stall de surface,	ng equi gent, w air bubb cals and decals	pment ater and les l stripir and stri	d squeeş	gee to ir			•	ng <u>NU</u>

#### Supporting Knowledge & Abilities

12.03.01	knowledge of types of anti-corrosive materials such as undercoating and rustproofing
12.03.02	knowledge of types of application equipment such as aerosol and pressure pot
12.03.03	ability to access hidden areas for application of anti-corrosive material
12.03.04	ability to apply material to repaired locations
12.03.05	ability to protect surrounding areas

Sub-t 12.04		Per	forms f	inal che	eck.							
<u>NL</u>	<u>NS</u>	<u>PE</u>	<u>NB</u>	<u>QC</u>	<u>ON</u>	MB	<u>SK</u>	<u>AB</u>	<u>BC</u>	<u>NT</u>	<u>YT</u>	<u>NU</u>
NV	yes	no	yes	yes	yes	yes	yes	yes	yes	yes	NV	NV

12.04.01	knowledge of new paint care
12.04.02	knowledge of vehicle's pre-existing condition
12.04.03	knowledge of industrial quality standards
12.04.04	ability to remove spray mask
12.04.05	ability to remove overspray
12.04.06	ability to clean vehicle such as vacuuming, wiping interior and cleaning glass
12.04.07	ability to check operation of electronic components and lights



# APPENDIX A

#### TOOLS AND EQUIPMENT

#### Standard Tool Kit

adhesive remover (eraser)

air powered tools

air pressure gauge

blow gun

clip removal tool

decal removal tool

drill

reveal moulding tool

rubber squeegee

sanding blocks

sanding boards

scratch pad

screwdrivers

drill

socket wrench

dual action sander sockets

file sponge blocks grinder spray bottles hand cutting tools stop watch hand tools tape measure heat gun tire chuck

plastic spreaders trim removing tools

putty board trouble light putty knife tweezers

ratchet socket upholstery tools

#### Safety and First Aid Equipment

disposal containers goggles

dust extraction equipment invisible glove dust mask paint suit

ear protectors protective clothing explosion proof room respirator (air purify

explosion proof room respirator (air purifying) explosion proof wiring respirator (air supplied)

eye wash station safety eye wear fire extinguishers safety footwear

first aid kit shower gloves (work & rubber) spill kits

#### **Refinishing Equipment**

air brush colour corrective bulbs anti-static devices computer and software

automatic gun washing system curing lamps

blow gun film thickness gauge (wet and dry)

colour chips gravel guard gun

#### **Refinishing Equipment (continued)**

ground cable schutz gun
gun washer solvent recycler
heat lamps spectrophotometer

liquid mask spray booth

measuring sticks spray gun (electrostatic)
microfiche reader spray gun (gravity feed)
mixing cups spray gun (HVLP)
mixing machine spray gun (LVLP)

mixing scales spray gun (pressure pot system)

mixing sticks spray gun (suction feed)

natural light gun spray out cards oilless compressor thermometer paint shaker UV lamps paint strainers variant cards pressure washers venturi fan psychrometer viscosity cups

#### **Detailing and Cleaning Equipment**

abrasive pad magnifying glass anti-corrosive applicator moulding cutter

buffer pad polisher buffer/polisher razor blade

clay blocks razor blade holder

cleaning brush run-nib file
cleaning clothes spray bottle
cleaning equipment stripe cutter
cleaning solutions tack cloths
interior cleaner vacuum cleaner

#### **Shop Equipment**

air compressor floor squeegees

air dryerhangersair hoseshoistair makeup systemmanometerair transformermasking cart

axle stand media blasting equipment

brooms moisture trap caulking gun (manual/air) moulding remover

decal eraser parts and bumper stands

files plastic rivet gun floor jack pneumatic sanders

#### **Shop Equipment (continued)**

pressure washer regulators solvent recycler spreaders stands step ladders

telephone two-way radio windshield removing tools wire brush

# APPENDIX B

#### **GLOSSARY**

**abrasive** a substance used to wear away a surface by friction

**adhesion** the force that makes two materials stick together. When paint bonds

with paint, it is called intercoat adhesion; epoxies have great adhesion

to most surfaces.

back mask masking of an opening of vehicle from the inside

basecoat/clearcoat a high-lustre, two-layer paint system, which, unlike conventional

lacquer or enamel, has the pigment in the basecoat with a clearcoat as the finish coat to protect the basecoat and produce a deep high-lustre

appearance and provide UV protection

**blending** gradual transition from the applied coat to the original coat

**chroma** the strength or intensity of a colour

**colour** the visual appearance of a material: red, blue, green, and so on; colours

are seen differently by different people.

**compatibility** the ability of materials to be used together without separation or

reaction

**contaminants** foreign substances on the surface to be painted (or in the paint) that

would adversely affect the finish

**coverage** the area a given amount of paint will cover

**cure** the process of drying or hardening of a paint film or to harden a

coating film by applied heat or catalyst

**degreaser** combination of solvents for the purpose of removing grease and oil

from the surface in preparation for painting

**dry spray** an imperfect coat, usually caused by spraying too far from the surface

being painted or on a too hot surface

**drying time** the expected time for a paint film to harden. Varying by product,

temperature and atmospheric conditions, drying time is usually expressed as dust-free and completely dry, or dry for recoat

**epoxy** a class of resins characterized by good chemical resistance; a film made

from epoxy resins is extremely durable and solvent resistant; pure

epoxies require strong solvents and a catalyst

filler a heavy-bodied plastic material that cures very hard and is used to fill

small dents in metal

**film thickness** the thickness of a coating measured in mils

**finish** the topcoat that protects the substrate, usually containing a pigment

**fish-eyes** blemishes in the finish coat usually of a circular and opalescent

character

**flash-off time** the first stage of drying where some of the solvents evaporate

grit a measure of the size of particles on sandpaper or discs

**guide coat** applied coat of contrasting colour to identify surface imperfections

when sanding

**hue** the name of a colour; the property of a colour by which it can be

distinguished; red, blue, yellow, etc.

**lustre** the appearance of depth as obtained by multiple coats

masking using tape and paper to protect an area that will not be painted

media blasting removal of topcoat using various materials such as sand, soda and

plastic beads

metal flake most generally, aluminium flakes that have iridescent and light

reflective properties

**metamerism** a term used to describe a colour shift when viewed under different

light sources

**mottling** irregular grouping of metallic particles in a topcoat

**orange peel** a film that has the physical appearance of an orange peel, caused by

improper spray application

**overspray** paint that falls on the area next to the one being painted

**primer** an undercoat applied to bare metal to promote adhesion of the topcoat

to substrate

primer surfacer a high-solids primer that fills small imperfections in the substrate and

usually must be sanded

**putty** a material made for filling small holes or sand scratches

**respirator** a device worn over the mouth and nose that delivers breathable air

**runs** usually caused by improper consistency of paint or applying too

heavily

sags state of applied paint before running

sealer a coating which improves adhesion and colour uniformity of the

topcoat

solids the pigment and non-volatile vehicle components of paint; material

which remains on surface

solvent the component of a solution which dissolves other components

**specifications** written instructions on details of paint applications, types of products

to be used, areas to be painted and painting procedure

**spectrophotometer** an electronic device used for recording and measuring colour

**spray gun** a tool powered by air pressure that atomizes liquids

**substrate** the surface that is to be finished; it can be anything from an old finish

or primer to an unpainted surface

tack cloth a cheesecloth that has been treated to make it tacky, used to pick up

dust and lint from the surface to be painted

three-stage (tri-

colour)

paint application that consists of distinct paint layers that produces a pearlescent appearance: a basecoat, a tinted midcoat and clearcoat.

tint to add colour to another colour or to white

**topcoat** the last or final colour clearcoat

**two-stage** consists of two distinct layers of paint: basecoat and clearcoat

**undercoat** a first coat: primer, primer surfacers or sealer

value the lightness/darkness of a colour

vehicle

number (VIN)

the number assigned to each vehicle by its manufacturer, primarily for

**identification** registration and identification purposes

viscosity consistency or body of a liquid

viscosity cup a device to measure the viscosity of a liquid by determining the time it

takes to flow through the opening of the cup

**volatile** capable of evaporating easily

water-borne paint an OEM paint process in which a special de-ionized, purified water is

substituted as the solvent carrier instead of enamel reducer

# APPENDIX C

## **ACRONYMS**

**HVLP** High Volume Low Pressure

**LVLP** Low Volume Low Pressure

MSDS Material Safety Data Sheet

OH&S Occupational Health and Safety

**OEM** Original Equipment Manufacturer

**PPE** Personal Protective Equipment

**RP** Reduced Pressure

**UV** Ultraviolet

VIN Vehicle Identification Number

**VOC** Volatile Organic Compounds

WHMIS Workplace Hazardous Materials Information System

# APPENDIX D

## **BLOCK AND TASK WEIGHTING**

#### BLOCK A OCCUPATIONAL SKILLS

%	<u>NL</u> NV	<u>NS</u> 5	<u>PE</u> 15	<u>NB</u> 26	<u>QC</u> 20	<u>ON</u> 25	<u>MB</u> 15	<u>SK</u> 11	<u>AB</u> 10	<u>BC</u> 20	<u>NT</u> 20	YT NV	<u>NU</u> NV	National Average 17%
Task 1 Uses documentation.														
		%	<u>NL</u> NV		PE NB 25 31	<u>QC</u> 20		<u>MB</u> <u>Sk</u> 35 25		<u>BC</u> 30		T <u>NU</u> IV NV		27%
	Task	2	Use	s tools	and eq	luipm	nent.							
		%	<u>NL</u> NV		PE NB 45 34	<u>QC</u> 55		<u>/IB Sk</u> 35 48		<u>BC</u> 35		<u>T</u> <u>NI</u> IV NV		46%
	Task	3	Org	anizes	work.									
		%	<u>NL</u> NV		PE NB 30 35	<u>QC</u> 25		<u>/IB</u> <u>Sk</u> 30 27		<u>BC</u> 35		<u>T</u> <u>NI</u> IV NV		27%
BLO	OCK E	3	VEH	ICLE	PREPA	RAT	ION							
%	<u>NL</u> NV	<u>NS</u> 40	<u>PE</u> 35	<u>NB</u> 28	<u>QC</u> 30	<u>ON</u> 25	<u>MB</u> 40	<u>SK</u> 40	<u>AB</u> 40	<u>BC</u> 40	<u>NT</u> 35	YT NV	<u>NU</u> NV	National Average 35%
	Task 4 Performs initial preparation.													
		%			PE <u>NB</u> 25 30			<u>/IB</u> <u>Sk</u> 20 21			NT Y 20 N			22%
	Task	5	Prep	oares s	surface.									
		%			PE NB 40 34									39%

Task 6 Applies repair materials.

NL NS PE NB QC ON MB SK AB BC NT YT NU
% NV 55 35 36 35 30 40 35 33 35 50 NV NV

#### BLOCK C REFINISHING

														National
	<u>NL</u>	<u>NS</u>	$\underline{PE}$	<u>NB</u>	<u>QC</u>	<u>ON</u>	MB	<u>SK</u>	<u>AB</u>	<u>BC</u>	$\underline{NT}$	<u>YT</u>	<u>NU</u>	Average
%	NV	50	35	28	30	25	35	37	40	35	35	NV	NV	35%

Task 7 Prepares equipment.

NL NS PE NB QC ON MB SK AB BC NT YT NU NV 15 15 22 10 20 15 13 10 10 20 NV NV

Task 8 Prepares refinishing materials.

NL NS PE NB QC ON MB SK AB BC NT YT NU

NV 35 30 28 40 25 35 33 40 45 20 NV NV

Task 9 Applies refinishing materials.

NL NS PE NB QC ON MB SK AB BC NT YT NU % NV 35 40 28 40 35 35 38 40 40 40 NV NV 37%

Task 10 Maintains refinishing equipment.

NL NS PE NB QC ON MB SK AB BC NT YT NU NV 15 15 22 10 20 15 16 10 5 20 NV NV

#### BLOCK D PRE-DELIVERY

NL NS PE		ON MB 25 10	<u>SK</u> <u>AB</u> 12 10	BC NT 5 10	YT NV	<u>NU</u> NV	National Average 13%
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Task 11 Carries out quality assurance check.

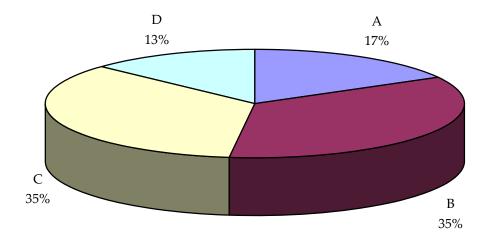
NL NS PE NB QC ON MB SK AB BC NT YT NU

NV 50 35 52 75 50 45 35 50 25 30 NV NV

45%

Task 12 Performs detailing.

NL NS PE NB QC ON MB SK AB BC NT YT NU NV 50 65 48 25 50 55 65 50 75 70 NV NV



#### TITLES OF BLOCKS

BLOCK A	Occupational Skills	BLOCK C	Refinishing
BLOCK B	Vehicle Preparation	BLOCK D	Pre-Delivery

<sup>\*</sup>Average percentage of the total number of questions on an interprovincial examination, assigned to assess each block of the analysis, as derived from the collective input from workers within the occupation from all areas of Canada. Interprovincial examinations typically have from 100 to 150 multiple-choice questions.

# APPENDIX F

# TASK PROFILE CHART — Automotive Painter

	BLOCKS	TASKS	_		SUB-TASKS		
A	OCCUPATIONAL SKILLS	1. Uses documentation.	1.01 Interprets vehicle information.	1.02 Interprets technical manuals and bulletins.	1.03 Interprets safety and environmental regulations.	1.04 Contributes to development of repair estimate.	1.05 Interprets work orders.
		2. Uses tools and equipment.	2.01 Uses hand tools.	2.02 Uses power tools.	2.03 Uses computers.	2.04 Uses measuring equipment.	2.05 Uses personal protective equipment (PPE).
		3. Organizes work.	3.01 Organizes material.	3.02 Communicates with others.	3.03 Maintains safe work environment.	3.04 Performs inspections.	
В	VEHICLE PREPARATION	4. Performs initial preparation.	4.01 Cleans vehicle.	4.02 Removes trim and accessories.			
		5. Prepares surface.	5.01 Repairs imperfections.	5.02 Masks vehicle.	5.03 Strips surface.	5.04 Sands surface.	
		6. Applies repair materials.	6.01 Applies fillers.	6.02 Applies primer and primer surfacers.	6.03 Performs final sanding.	6.04 Applies chip guard.	
С	REFINISHING	7. Prepares equipment.	7.01 Performs spray gun setup.	7.02 Prepares spray booth.			
		8. Prepares refinishing materials.	8.01 Mixes paint.	8.02 Performs colour matching.			
		9. Applies refinishing materials.	9.01 Applies sealers.	9.02 Applies topcoat materials.			

BLOCKS	TASKS	- -		SUB-TASKS			
	10. Maintains refinishing equipment.	10.01 Maintains spray booth.	10.02 Maintains spray equipment.				
D PRE-DELIVERY	11. Carries out quality assurance check.	11.01 Removes surface imperfections.	11.02 Removes masking materials.				
	12. Performs detailing.	12.01 Installs trim and accessories.	12.02 Applies decals and striping.	12.03 Applies anti- corrosive material.	12.04 Performs final check.		