Occupational Analyses Series Lather (Interior Systems Mechanic)

2002

Policy and Apprenticeship Division Division des politiques et de

l'apprentissage

Human Resources Partnerships Directorate Direction des partenariats en ressources humaines

Disponible en français sous le titre : Latteur/latteuse (spécialiste de

systèmes intérieurs)



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OTHER RELATED OCCUPATIONAL TITLES

This analysis covers tasks performed by a lather (interior systems mechanic) whose occupational title has been identified by some provinces and territories of Canada under the following names:

Drywall and acoustical mechanic Interior systems installer Interior systems mechanic

LIST OF PUBLISHED OCCUPATIONAL ANALYSES *

TITLE	NOC** Code
Appliance Service Technician (1997)	7332
Aquaculture Technician (1977)	2221
Arts Administrator (1989)	0114
Automotive Painter (1995)	7322
Automotive Service Technician (1998)	7321
Automotive Technician - Automatic Transmission (1990)	7321
Automotive Technician - Electrical/Electronics (1992)	7321
Automotive Technician - Engine Repair and Fuel Systems (1989)	7321
Automotive Technician - Front-End (1989)	7321
Automotive Technician - Manual Transmission, Driveline and Brakes (1990)	7321
Aviation Machinist (1994)	7231
Baker (1997)	6252
Blaster (Surface) (1987)	7372
Boilermaker (1994)	7262
Bricklayer (2000)	7281
Cabinetmaker (2000)	7272
Carpenter (1998)	7271
Cement Finisher (1995)	7282
Construction Electrician (1994)	7241
Cook (1997)	6242
Electrical Rewind Mechanic (1999)	7333
Electronics Technician (Consumer Products) (1997)	2242
Electronics Technician Vol. I (1986) (Video Equipment)	2242
Electronics Technician Vol. II (1986) (Audio Equipment)	2242

[?] Red Seal analyses are indicated in bold

^{**} National Occupational Classification

Electronics Technician Vol. III (1986) (Computer Equipment)	2242
Electronics Technician Vol. IV (1986) (Office Equipment)	2242
Electronics Technician Vol. VI (1986) (Communication Equipment)	2242
Electronics Technician Vol. VII (1986) (Signaling Equipment)	2242
Electronics Technician Vol. VIII (1986) (Navigation Equipment)	2242
Electronics Technician Vol. IX (1986) (Video Game Equipment)	2242
Electronics Technician Vol. X (1987) (CADD Equipment)	2242
Electronics Technician Vol. XI (1987) (CAM Equipment)	2242
Electronics Technician Vol. XII (1987) (Robotics Equipment)	2242
Electronics Technician Vol. XIII (1987) (Biomedical and Laboratory Equipment)	2242
Electronics Technician Vol. XIV (1987) (Industrial Process-Control Equipment)	2243
Farm Equipment Mechanic (2000)	7312
Floorcovering Installer (1997)	7295
Glazier (1994)	7292
Hairstylist (1997)	6271
Heating (Gas and Oil) Servicer - Commercial and Industrial (1978)	7331
Heavy Duty Equipment Mechanic (1998)	7312
Heavy Equipment Operator (1983)	7421
Industrial Electrician (1997)	7242
Industrial Instrument Mechanic (2000)	2243
Industrial Mechanic (Millwright) (1999)	7311
Insulator (Heat and Frost) (2000)	7293
Ironworker (Generalist) (1993)	7264
Lather (Interior Systems Mechanic) (2002)	7284
	•

Logistics (1992)	0713
Machinist (1998)	7231
Major Electrical Appliance Repairer (1984)	7332
Mobile Crane Operator (1997)	7371
Motorcycle Mechanic (1995)	7334
Motor Vehicle Body Repairer (Metal and Paint) (1997)	7322
New Home Builder and Residential Renovation Contractor (1992)	0712
Oil Burner Mechanic (1997)	7331
Painter and Decorator (2000)	7294
Partsperson (1995)	1472
Plumber (1996)	7251
Power Engineer (1997)	7351
Powerline Technician (1996)	7244
Recreation Vehicle Mechanic (2000)	7383
Refrigeration and Air Conditioning Mechanic (1997)	7313
Roofer (1997)	7291
Sheet Metal Worker (1997)	7261
Sprinkler System Installer (1995)	7252
Steamfitter-Pipefitter (1996)	7252
Steel Fabricator (Fitter) (1994)	7263
Tool and Die Maker (1997)	7232
Truck-Trailer Repairer (1994)	7321
Truck and Transport Mechanic (2000)	7321
Welder (1996)	7265

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FOREWORD

The first National Conference on Apprenticeship in Trades and Industries, held in Ottawa in 1952, recommended that the federal government be requested to co-operate with provincial apprenticeship committees and officials in preparing analyses of a number of skilled occupations. To this end, Human Resources Development Canada sponsors a program, under the guidance of the Canadian Council of Directors of Apprenticeship (CCDA), to develop a series of occupational analyses.

The Occupational Analysis Program has the following objectives:

- to identify and group the tasks performed by skilled workers in particular occupations;
- to identify those tasks that are performed by skilled workers in every province and territory;
- to develop instruments for use in the preparation of interprovincial standards "Red Seal" examinations and curricula for training leading to the certification of skilled workers;
- to facilitate the mobility, in Canada, of trainees and skilled workers;
- to supply employers and employees, and their associations, industries, training institutions and governments with analyses of the tasks performed in particular occupations.

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DEVELOPMENT OF ANALYSIS

A draft analysis is developed by a knowledgeable consultant who, with the assistance of a committee of industry experts in the field, identifies all the tasks performed in the occupation.

The draft is then assigned to occupational analysts at Human Resources Development Canada for translation and then returned to the consultant for review to ensure conformity with the mtionally approved format.

The consultant will then forward a copy of this analysis to provincial/territorial authorities for validation by specialists in the field. Their recommendations are assessed and incorporated into the final draft which also includes the identification of the common core tasks performed in the occupation.

The occupational analysis is published in both official languages.

STRUCTURE OF ANALYSIS

To facilitate understanding of the nature of the occupation, the work performed is divided into the following divisions:

- A. **BLOCK** is the largest division within the analysis and reflects a distinct operation relevant to the occupation.
- B. **TASK** is the distinct activity that, combined with others, makes up the logical and necessary steps the worker is required to perform to complete a specific assignment within a "BLOCK".
- C. **SUB-TASK** is the smallest division into which it is practical to subdivide any work activity and, combined with others, fully describes all duties constituting a "TASK".

Supporting Knowledge & Abilities

The elements of skill and knowledge that an individual must acquire to adequately perform the task are identified under this heading.

Trends

Any shifts or changes in technology that affect the block are identified under this heading.

Related Components

All components of a specified task being undertaken by the lather (interior systems mechanic) are identified under this heading.

Tools and Equipment

All tools and equipment necessary for the lather (interior systems mechanic) to complete a task are identified under this heading.

VALIDATION METHOD

At the request of the Canadian Council of Directors of Apprenticeship (CCDA), the Standardization Sub-Committee developed a method for validating the Red Seal national occupational analyses.

A draft of the analysis is sent to all provinces/territories for validation. Each jurisdiction rates the sub-tasks and applies percentage ratings to blocks and tasks. This method for the validation of the national occupational analysis identifies common core tasks across Canada for a specific occupation. This feature facilitates the weighting of the Interprovincial Red Seal examinations.

DEFINITIONS

YES: the sub-task is performed by workers in the occupation in a specific jurisdiction.

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

jurisdiction.

BLOCK %: the average number of questions (items), derived from the collective decision made

by workers within the occupation from all areas of Canada, that will be placed on

an interprovincial examination to assess each block of the analysis.

TASK %: the average number of questions (items), derived from the collective decision

made by workers within the occupation from all areas of Canada, that will be

placed on an interprovincial examination to assess each task of the analysis.

NV: <u>Not Validated by a province/territory.</u>

ND: <u>Not Designated in a province/territory.</u>

PROVINCIAL/TERRITORIAL ABBREVIATIONS

NF: Newfoundland and Labrador

Saskatchewan

NS: Nova Scotia

PE: Prince Edward Island
NB: New Brunswick

QC: Quebec
ON: Ontario
MB: Manitoba

AB: Alberta

BC: British Columbia
NT: Northwest Territories

YK: Yukon NU: Nunavut

COMMON CORE

SK:

The criteria for determining common core depend on the performance of sub-tasks. If 70% of the responding jurisdictions (excluding NVs and NDs) perform a sub-task, it shall be considered common core.

Interprovincial Red Seal examinations are based on the common core identified through this validation process. This process identifies what will be assessed through the interprovincial examination.

BLOCKS AND TASKS WEIGHTING (APPENDIX "B")

This appendix represents the block and task percentages as submitted by each jurisdiction.

Each jurisdiction, with the use of a provincial/territorial occupational advisory committee, validates the content, places percentages on blocks and tasks, and indicates whether or not the sub-tasks are performed by the skilled workers within the occupation. The results of this exercise are submitted to the consultant who then analyzes the data and develops this appendix which provides the individual jurisdictional validation results as well as the national averages of all responses.

PIE CHART (APPENDIX "C")

The graph depicts the national percentages assigned to blocks in the analysis.

SCOPE OF THE LATHER (INTERIOR SYSTEMS MECHANIC) OCCUPATION

The title "Lather (Interior Systems Mechanic)" describes a person who, because of his or her knowledge, training, and abilities, is capable of installing ceiling systems, demountable walls, access flooring, partitions, soundproofing, metal lath, drywall, exterior prefabricated wall panels, lead shielding, and interior/exterior metal wall studs in commercial, residential and institutional buildings.

Lathers (Interior Systems Mechanics) have skills and experience in measuring, cutting, and installing a wide variety of materials. To perform their duties properly, lathers have to co-ordinate their work with other trades at the worksite.

Some lathers work for years on a single site, such as an office complex, performing similar tasks constantly. Others are employed by general contractors or subcontractors in firms such as lath and plastering or interior systems, or they may be self-employed as sub-contractors. Workers in this occupation are often unionized, in which case they are hired by employers through the union hiring hall.

The duties associated with this occupation may overlap those of carpenters, sheet metal workers, and drywall tapers.

OCCUPATIONAL OBSERVATIONS

The construction industry, like many other sectors of the economy, is experiencing new directions and rapid changes, due to technological innovations that prevail today.

Lathers (interior systems mechanics) along with working with new materials and methods, now find themselves dealing with higher fire and sound ratings for new construction. Similarly, steel stud construction – once limited to industrial construction – is being used in residential construction, thus providing a jurisdictional challenge for the occupation.

Basic computer skills are becoming a necessary occupational skill. Computerized plan design, paperless plans and other computer applications are making computer skills essential.

The occupation has evolved beyond its original focus on plaster lath work to encompassing the construction of metal stud walls, placing prefabricated panels, constructing a variety of ceilings and floors, and installing drywall. Such changes have led to some confusion regarding the occupational title, given that its practitioners do so much more than place laths. Since they work on exteriors, the sub-title "interior systems mechanics" also does not adequately describe the full scope of their occupation.

Like many construction occupations, the lather occupation is suffering from an ageing workforce, with many practitioners approaching retirement age, and is attracting fewer new entrants to replace them.

Training and retraining is a major issue within the occupation. Pre-apprenticeship training is rare in Canadian community colleges, although some larger unions do offer upgrading for their members. Since block release training is equally rare, many practitioners have not served an apprenticeship in the field and thus do not have their Red Seal.

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 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 working environment.

It is imperative to apply and be familiar with the Occupational Health and Safety Act and Regulations. As well, it's essential to determine workplace hazards and take measures to protect oneself, coworkers, the public, and the environment.

As safety education is an integral part of training in all jurisdictions, personal safety practices are not recorded in this document. However, the technical safety aspects relating to each task and sub-task are included throughout this analysis.



BLOCK A

OCCUPATION SKILLS

Trends: New methods, tools, and materials are being introduced into the occupation on an

ongoing basis. The use of computers has introduced electronic drawings, specifications,

and contract documents to the occupation.

Task 1 Interprets occupational documentation.

Related Components: Blueprints, specifications, codebooks, manufacturers'

specifications.

Tools and Equipment: Architectural scales, calculator, computer.

Sub-task

1.01	Interprets blueprints and specifications.				Supporting Knowledge & Abilities							
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND
					1.03	1.01.01 knowledge of blueprin as architectural, mecha				• •		
					1.01.02 knowledge of specification divisions							
					1.01.03 knowledge of conversion calculations				3			
							nowledge of specification addenda and change rders					
					1.01.05 ability to analyze blueprints							
					1.01.06			•	d related is, adden		ntion in change o	orders
					1.0	1.07	abil	lity to ca	lculate d	istances	and dime	ensions

1.02	Interp regula	rets cod tions.	es and		<u>Sup</u>	porting]	Knowled	lge & A	<u>bilities</u>						
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	SK yes	AB yes	BC yes	NT ND	YK ND	NU ND			
					1.02	.01	knowledge of federal, provincial, and municipal building codes								
					1.02	.02	knowledge of quality assurance standards such as the Underwriters Laboratories of Canada (ULC) handbook and Canadian Standards Association (CSA) codes								
					1.02	.03	knowledge of fire-rating and sound-rating systems								
					1.02.	.04	abilit	y to app	ly codes	and reg	ulations				

1.03		prets ma mentati										
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	NU ND
					1.0	3.01		owledge HMIS)	of hazar	dous mat	erial spe	cifications
					1.0	3.02		owledge cification		facturers	docum	ents and
					1.0	3.03	ability to follow manufacturers' instructions					
					1.0	3.04		lity to in SDS)	terpret N	Iaterial S	Safety Da	ata Sheets

Task 2 Organizes work.

Related Components: Materials list, dust barriers, temporary railings, hoarding.

Tools and Equipment: Gang boxes, lunch table, blueprint table, broom, shovel, garbage

bins, hazardous waste containers.

Sub-task

2.01	Prepa	ares wor	k site.		<u>Sur</u>	pporting	Knowl	edge & .	<u>Abilities</u>	<u>1</u>			
<u>NF</u> ND	NS yes	<u>PE</u> yes	<u>NB</u> ND	QC yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	<u>YK</u> ND	<u>NU</u> ND	
					2.0	1.01		wledge o	_	lemolitio	n technic	ques and	
					2.0	1.02	kno area	_	of work	impacts	on surro	undin g	
					2.01.03		knowledge of dust barriers, hoarding, and guard-rail requirements						
					2.0	1.04	abil	lity to as	sess site	readines	S		
					2.0	1.05	ability to pre-clean work site						
					2.01.06			ability to install dust barriers, hoarding, and guard rails					
					2.0	1.07	abil	lity to re	move ob	struction	ıs		

Sub-task

2.02	Estim suppl		iterials a	ınd	<u>Sur</u>	porting	Knowle	edge &	<u>Abilities</u>	•		
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	NU ND
					2.02	2.01	kno	wledge	of requir	ed mater	ials and	supplies
					2.02.02 ability to estimate materials and supplies need as the job progresses							lies needed

Sub-task

2.03 Manages time. Supporting Knowledge & Abilities

NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	SK yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND
					2.0	3.01	kno	wledge	of work	required		
					2.0	3.02	kno	wledge	of seque	nce of w	ork	
					2.03	3.03	abil task	•	timate tii	me to co	mplete s	pecific
					2.0	3.04	abil	ity to pla	an ahead			
					2.0	3.05	abil	ity to us	e time pr	oductive	ely	

2.04	Orga supp		aterials	and	<u>Su</u>	oportin <u>g</u>	Knowl	edge &	<u>Abilities</u>	<u> </u>			
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	NU ND	
					2.0	4.01		_		_	e of mate se of use	erials and	
					2.0	2.04.02 knowledge of the sequence are to be used						materials	
					2.0	4.03		knowledge of methods for securing and protecting materials					
					2.0	4.04	abil	ability to place materials on site					
					2.0	4.05	abil	ity to pr	otect and	l secure	materials	S	

Sub-task

2.05 Co-ordinates work with others.

Supporting Knowledge & Abilities

<u>NF</u> ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	NU ND
					2.05	.01	kno	wledge o	of seque	nce of w	ork	
					2.05.02 knowledge of the requion site						nts of oth	ner trades
					2.05	.03	kno	wledge o	of comm	unicatio	n techniq	lues
					2.05	.04	abili othe	•	mmunica	ate and c	o-operat	e with

Lays out work. Task 3

Blueprints, specifications, product information, access floors, Related Components:

walls, ceilings, roofs.

Tools and Equipment: Chalk line, pencils, paint, measuring tapes, laser level, squares.

Sub-task

3.01	Estab point	_	rid line/s	starting	Supporting Knowledge & Abilities										
NF ND	NS yes	PE yes	NB ND	QC yes	ON yes	MB yes	SK yes	AB yes	BC yes	NT ND	YK ND	NU ND			
					3.0	1.01	knowledge of building configuration								
					3.0	1.02	knowledge of layout procedures								
					3.0	1.03	abil	ity to ide	entify co	mmon st	arting po	oint			
					3.0	1.04	abil	ity to ma	ark or ch	alk gridli	ines				
					3.0	1.05	ability to check gridlines for square								
Sub-ta	ask														
3.02			ormatio work sit		<u>Sur</u>										
<u>NF</u> ND	NS yes	PE yes	<u>NB</u> ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	<u>YK</u> ND	<u>NU</u> ND			

3.02.01	knowledge of construction techniques
3.02.02	knowledge of installation techniques for each system
3.02.03	knowledge of installation sequence for each system
3.02.04	knowledge of work requirements of other trades on site
3.02.05	knowledge of system's intended use
3.02.06	ability to measure and chalk lines
3.02.07	ability to layout corners, angles, and radii

Task 4 Uses and maintains tools and equipment.

Related Components: None.

Tools and Equipment: See Appendix A.

4.01	Uses h	and too	ols.		Supp	orting 1	Knowle	dge & A	<u>Abilities</u>					
<u>NF</u> ND	NS yes	PE yes	<u>NB</u> ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND		
					4.01	.01	knov	vledge o	of types a	and uses	of hand	tools		
					4.01.02 knowledge of components of hand tools									
					4.01.03 knowledge of hand tool safety									
					Supporting Knowledge & Abilities									
					4.01	.04	abilit	y to use	sealing t	ools				
					4.01	.05	abili	ty to use	measuri	ng and l	ayout too	ols		
					4.01	.06	abilit	ty to use	cutting t	ools				
					4.01.07 ability to use fastening tools									
					4.01	.08	abilit	ty to use	dismant	ling tool	S			

4.01.09	ability to use sanding and taping tools
4.01.10	ability to use door tools
4.01.11	ability to use hand levels

4.02	Uses p	ower to	ools.		Sup	porting	Knowle	dge & A	bilities						
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND			
					4.02	.01	knov	wledge o	f types a	nd uses	of powe	r tools			
					4.02	.02	knowledge of power tool components								
					4.02	.03	knov	vledge o	f power	tool safe	ety				
					4.02	.04	ability to use screw guns								
					4.02	.05	abilit	ty to use	drills						
					4.02	.06	abili	ty to use	routers	(wood a	nd dryw	all)			
					4.02	.07	ability to use saws such as chop saw, mitre saw, reciprocating saw, circular saw, jig sa and band saw								
					4.02	.08	ability to use grinders								
					4.02	.09	abili	ty to use	planers						

4.03		laser-le pment.	velling		Supporting Knowledge & Abilities									
NF ND	<u>NS</u> yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND		
					4.0	3.01		owledge iipment	of types	and uses	s of laser			
					4.0	3.02	knowledge of laser equipment components							
					4.0	3.03	abil	ability to set up a laser level						
						_ 9 .	_							

4.03.04	ability to use features of a laser level
4.03.05	ability to plumb and level with laser equipment
4.03.06	ability to use different types of laser equipment

4.04	Uses p	owder-	actuate	d tools.	Supporting Knowledge & Abilities											
<u>NF</u> ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	<u>YK</u> ND	NU ND				
					4.04	4.01		wledge ated too	• •	and uses	s of powe	der-				
					4.04	4.02	knowledge of components of powder-actuated tools									
					4.04	4.03	knowledge of safety features of powder- actuated tools									
					4.04	4.04	ability to use different types of powder-actuated tools									
					4.04	4.05	abil	ity to di	fferentiat	e betwee	en cartrid	lge loads				
					4.04	4.06		ity to di	fferentiat	te betwee	en types	of				

4.05		scaffold ment.	ing and	access	Supporting Knowledge & Abilities										
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND			
					4.05	5.01	knowledge of types and uses of scaffolding and access equipment								
					4.03	5.02	knowledge of scaffolding and access equipmer components								
					4.05	5.03		_	•	procedu ess equip		sing			

4.05.04	ability to operate scissor-lifts and booms
4.05.05	ability to erect different types of scaffolding
4.05.06	ability to use a variety of ladders

4.06	Maint equipi	ains too nent.	ls and		Supporting Knowledge & Abilities									
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	SK yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND		
					4.06.01		knowledge of types of tools							
					4.06	5.02		wledge on tenance			' recomn	nended		
					4.06	5.03	ability to maintain			nd tools	and equ	ipment		
					4.06	5.04	ability to interpret manufacturers' manuals							
					4.06	5.05	abili	ty to mai	intain po	wer tool	S			
					4.06	5.06	abili	ty to ma	intain po	wder-ac	tuated to	ols		
					4.06	5.07		ty to ma folds, lac		-	ipment s	such as		

BLOCK B

FRAMING

Trends: Increased use of steel studs in residential construction. Increased use of energy-efficient materials. Increased use of technological advances in levelling and measuring devices.

Task 5 Erects non-load-bearing steel studs.

Anchors, fasteners (framing screws, etc.), metal track, steel studs, Related Components:

furring bar, resilient bar, metal angle, window frames, door

frames, access doors, backing materials.

Tools and Equipment: Standard tools, power tools (see Appendix A for details on both),

chop saw, power shears, laser level, magnetic level.

Sub-task

5.01	Frame	es walls	and ceil	ings.	Sup	porting	Knowle	edge & A	Abilities							
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON MB yes yes		<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND				
					5.01.01		knowle proced	•	ire rating	g and sou	ınd ratinş	9				
					5.01	1.02	knowle	teel stud	materia	ls and pr	operties					
					5.01	1.03	knowle	edge of f	raming t	echnique	es					
					5.01	1.04	knowledge of anchorage types and properties									
					5.01	1.05	knowledge of building codes and procedures									
					5.01	1.06	knowle	edge of s	ubstrate	type and	d propert	ies				
					5.01	1.07	ability	to interp	ret wall	legends a	and schee	dule				
					5.01	1.08	ability	to frame	opening	s and re	cesses					
					5.01	1.09	ability to install top and bottom track									
					5.01	1.10	ability	to install	steel stu	ıds						

5.02		s metal w frame	door ar	ıd	Sup	porting]	Knowledge & Abilities									
NF ND	NS yes	PE yes	<u>NB</u> ND	<u>QC</u> yes	ON MB yes yes		<u>SK</u> yes	AB yes	BC yes	NT ND	<u>YK</u> ND	<u>NU</u> ND				
					5.02.01			wledge o		and sizes	of metal	l door and				
					5.02	02		vledge o		ring and	shimmin	g products				
					5.02	03	knowledge of door and window installation techniques									
					5.02	.04	knowledge of door swing direction									
					5.02	05		ty to ins g directi		e compa	tible with	door-				
					5.02	.06	abilit	y to inte	erpret do	or/windo	ow sched	ule				
					5.02	07	ability to level, plumb, and square frames									
					5.02	.08	abilit	ty to ide	ntify/sel	ect the sp	pecified f	rame				
					5.02	09	abilit	ty to ins	tall anch	ors and s	shims					

Sub-task

5.03	Insta	lls acces	ss panels	S.	Supporting Knowledge & Abilities								
NF ND	NS yes	PE yes	<u>NB</u> ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND	
					5.0	3.01	kno	wledge	of fire co	odes			
					5.0	3.02	kno	wledge	of types	of acces	s panels		
					5.0	3.03	knowledge of panel installation instructi						
					5.0	3.04	abil	lity to se	lect/iden	tify spec	ified pan	el	

Task 6 Erects load-bearing steel studs.

Related Components: Steel studs, steel track, bridging clips, strapping, joists, channels,

gussets, metal trusses, fasteners, anchors.

Tools and Equipment: Standard tools, power tools (see Appendix A for details on both),

chop saw, power shears, laser level, magnetic level, powder-

actuated tools, arc welder, mig welder.

Sub-task

6.01	Fram	es roofs.	•		<u>Sup</u>	porting	ing Knowledge & Abilities								
<u>NF</u> ND	NS yes	PE yes	<u>NB</u> ND	QC yes	ON MB yes yes		<u>SK</u> yes	AB yes	BC yes	<u>NT</u> ND	<u>YK</u> ND	<u>NU</u> ND			
					6.01.01			wledge o		ng code r	equirem	ents			
					6.01	1.02	kno	wledge (of genera	ıl constru	action ma	ath			
					6.01	1.03	kno	of roof t	ypes						
					6.01	1.04	kno and		naterials,	characte	eristics,				
					6.01	1.05	kno	wledge	of roof-e	of-erection techniques					
					6.01	1.06	kno deta	_	of structu	ıral steel	stud frar	ning			
					6.01	1.07	abil	ity to int	erpret fra	aming de	tails				
					6.01	1.08		ity to cu		tall track	x, studs, a	and roof			
					6.01	1.09	ability to install specified anchors and fastene								
					6.01	1.10	abil	ity to ap	ply frami	ng detail	ls				

6.02	Frames floors.				Supporting Knowledge & Abilities							
<u>NF</u> ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	<u>MB</u> yes - 14	SK yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND

6.02.01	knowledge of building code requirements specific to floors
6.02.02	knowledge of anchoring and fastening systems
6.02.03	knowledge of fire rating and sound rating procedures
6.02.04	knowledge of floor installation techniques
6.02.05	knowledge of types of steel studs
6.02.06	knowledge of general load-bearing limits
6.02.07	ability to locate and frame openings and recesses
6.02.08	ability to cut and install sill tracks
6.02.09	ability to cut and install bridging
6.02.10	ability to select anchorage and spacing

BLOCK C

INTERIOR SYSTEMS

Trends: Towards lighter weight materials, higher fire and sound ratings, denser drywall

material, and more specialized material.

Task 7 Installs access flooring systems.

Related Components: Pedestals, channels, floor panels, grommets, continuity

connectors, air diffusers.

Tools and Equipment: Standard tools (see Appendix A), panel lifters, band saw, skill saw,

drill, hole saw, caulking gun, laser level, screw gun.

Sub-task

7.01	Insta	lls pede	stals.		Supporting Knowledge & Abilities								
NF ND	<u>NS</u> yes	PE yes	<u>NB</u> ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	<u>YK</u> ND	<u>NU</u> ND	
					7.0	1.01	kno	wledge	of types	of pedes	stals		
					7.01.02		kno	wledge	of pedes	tal secur	ing techr	niques	
					7.0	7.01.03		wledge tection t			orting an	d seismic	
					7.0	1.04	kno	knowledge of fire stop requirements					
					7.0	7.01.05		ability to assemble pedestals					
					7.01.06		abil	ity to pl	ace and	secure pe	edestals		
					7.01.07		abil	ity to le	vel pedes	stals			

7.02	Insta	lls supp	orting h	ardware.	Sur	porting	Knowle	<u>.</u>					
NF ND	NS yes	<u>PE</u> yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	NU ND	
					7.02.01		kno	wledge	of types	of suppo	orting ha	rdware	
					7.02	2.02	kno	wledge (of floor g	grid insta	ıllation te	echniques	
					7.02	2.03	kno	wledge (of floor g	grid secu	ring tech	niques	
					7.02	2.04	knowledge of perimeter moulding and finishing						
					7.02.05		abil	lity to cu	t support	ing chan	nels		
					7.02.06		abil	lity to pla	ace and s	secure su	pporting	floor grids	

7.03	Insta	lls floor	ing pan	els.	Sur	Supporting Knowledge & Abilities									
NF ND	NS yes	<u>PE</u> yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	NU ND			
					7.03.01		kno	wledge	of types	of floor	panels				
					7.0	3.02	knowledge of floor panel installation techniques								
					7.0	3.03	ability to cut floor panels								
					7.03.04		abil	lity to cu	t and fin	ish cable	e access 1	noles			
					7.03.05		abil	lity to pl	ace and	secure flo	oor pane	ls			

Task 8 Installs wall systems.

Related Components:

Batt, semi-rigid, rigid and mineral fibre insulation, gypsum board, pre-finished drywall, cementitious board, fibre boards, fasteners, adhesives, caulking, demountable partition systems, framing/trim, extruded aluminium, proprietary shaft wall systems, security mesh, resilient bar, Z bar/channels.

Tools and Equipment:

Standard tools, power tools (see Appendix A for both), chop saw, power mitre saw, rubber mallet, system specific tools, metal file, hole saw, router, suction cups, respirator/mask, gloves, goggles, coveralls, safety equipment.

8.01	Insta	lls insul	ation.		<u>Sur</u>	oporting	ng Knowledge & Abilities									
<u>NF</u> ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON MB yes yes		<u>SK</u> yes	AB yes	BCNTYKNUyesNDNDND							
					8.01.01		knowledge of types and properties of insulation									
					8.0	1.02	knowledge of fire rating and sound rating procedures and requirements									
					8.0	1.03	knowledge of insulation installation techniques									
					8.0	1.04	ability to install specified insulation									
					8.01.05		abil	lity to in	terpret w	all legen	ds and se	chedules				
					8.01.06		ability to cut and place insulation									

Sub-ta	Sub-task															
8.02	Insta	lls demo	untable	walls.	<u>Sur</u>	porting	<u>i</u>									
<u>NF</u> ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND				
					8.02	2.01		wledge of	• •	of demo	untable v	wall				
					8.02	2.02	knowledge of extruded aluminium framing components									
					Sur	porting	Knowle	edge & A	Abilities	<u>i</u>						
					8.02	2.03	kno	wledge o	of panel	installati	on techn	iques				
					8.02	2.04		wledge of anchoris		• •	and char	racteristics				
					8.02	2.05	doo	•	tall extru compon		ninium /or tracks,					

8.02.06	ability to install glass and glazing beads
8.02.07	ability to install doors/transoms
8.02.08	ability to install pre-finished panels, trims, and mouldings
8.02.09	ability to install and level top/bottom track
8.02.10	ability to install steel studs and related components

8.03	Install	s drywa	rywall. Supporting Knowledge & Abilities													
NF ND	NS yes	PE yes	NB ND	QC yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	NU ND				
					8.03.	.01	know	ledge of	types a	nd prope	erties of o	drywall				
					8.03.	.02		vledge of edures	fastener	rs and fa	stening					
					8.03.	.03		ledge of edures	fire ration	ng and s	ound rati	ng				
					8.03.	.04	ll legend	s and sch	nedules							
					8.03.	.05	ability to cut and place drywall									
					8.03.	.06	ability to use specified fasteners									
					8.03.	.07	abilit	y to loca	ite and c	ut access	holes					
Sub-ta	sk															
8.04	Install	s shaft v	valls.		Supp	orting l	Knowled	lge & A	<u>bilities</u>							
NF ND	NS yes	PE yes	NB ND	QC yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	NU ND				
					8.04.	.01	know	ledge of	f types o	f shaft w	all syste	ems				
				8.04.02 knowledge of shaft wall installation proced								ocedures				

8.04.03

knowledge of caulking properties and procedures

8.04.04	knowledge of anchoring and fastening procedures
8.04.05	ability to cut, level, and place J-tracks
8.04.06	ability to frame shaft wall with studs
8.04.07	ability to cut and install coreboard
8.04.08	ability to cut and install finish layers of coreboard
8.04.09	ability to select proper anchors and fasteners

8.05	Insta	lls secui	rity mes	h.	Supporting Knowledge & Abilities										
NF ND	NS yes	<u>PE</u> yes	<u>NB</u> ND	<u>QC</u> yes	ON MB yes yes		<u>SK</u> yes	AB yes	BC NT YK NU ND ND						
					8.05.01		kno	_	of types	and prop	perties o	f security			
					8.0	8.05.02		knowledge of mesh fastening systems							
					8.0	5.03	ability to cut and place mesh								
					8.05.04		abil	lity to ins	stall faste	eners					
					8.05.05		abil	lity to in	terpret w	all legen	ds and s	chedules			

Task 9 Installs ceiling systems.

Related Components: Grid systems, metal linear ceilings, integrated ceiling systems,

hangers, hanger pins, sound is olators, hold-down clips, panel supports, tie wires, attaching hardware, supporting channels, perimeter moulding, drywall, acoustic tile, sound proofing,

decorative panels, plaster, wood panels.

Tools and Equipment: Standard tools, power tools (see Appendix A for both), laser level,

hammer drill.

Sub-task

9.01	Instal	lls suspe	ended ce	ilings. <u>Supporting Knowledge & Abilities</u>												
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	<u>YK</u> ND	NU ND				
					9.01.01		kno	wledge	of types	of suspe	nded cei	lings				
					9.0	1.02	kno	wledge	of ceiling	g compo	nents					
					9.0	1.03		wledge oniques	of susper	nded ceil	ing insta	llation				
					9.0	1.04	ability to lay out ceiling pattern									
					9.0	1.05	ability to level ceiling grid									
					9.0	1.06	ability to install anchors for attaching hangers									
					9.0	1.07		ity to ins	stall and	bridge h	angers a	nd sound				
					9.0	1.08	abil	ity to cu	t suppor	ting hard	lware					
					9.0	1.09	abil	ity to att	ach supp	oorting h	ardware					
					9.01.10		abil	ity to cu	t ceiling	panels						
					9.01.11		ability to cut and finish holes for ceiling fixtures and access panels									
					9.0	1.12	abil	ity to pla	ace and s	secure ce	iling pan	els				

9.02	Insta ceilin		suspend	ed	Supporting Knowledge & Abilities									
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND		
					9.02.01		knowledge of ceiling material							
					9.02.02		kno	wledge	of ceiling	g fastene	rs and ac	dhesives		
					9.02	2.03	ability to lay out ceiling patterns							
					9.02	2.04	abil	ity to cu	t and ins	tall strap	ping and	furring		
					9.02	2.05	abil	ity to pla	ace and s	ecure ce	iling pan	els		

9.03		lls drop igs/bulk	-		<u>Su</u>	pporting	Knowl	edge &	Abilities	<u>s</u>			
<u>NF</u> ND	NS yes	<u>PE</u> yes	<u>NB</u> ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND	
					9.0	3.01	knowledge of types of dropped ceilings/bulkheads						
					9.0	3.02		lity to pl terial	ace and s	secure dr	opped ce	iling	

Task 10 Installs sound barriers and lead shielding.

Related Components: Lead sheeting, acoustical caulking and tape, batt and rigid

insulation, resilient bar, sound board, glues and adhesives.

Tools and Equipment: Standard tools (see Appendix A), caulking gun.

Sub-task

10.01 Installs sound barriers. Supporting Knowledge & Abilities

<u>NF</u> ND	NS yes	PE yes	<u>NB</u> ND	QC yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND			
					10.01.01		kno	wledge	of sound	ratings	and asse	mblies			
					10.0	01.02									
					10.0	01.03	knowledge of methods of sound rating								
					10.0	01.04	ability to install sound insulation								
					10.0	01.05	ability to install resilient bars and sound l					and boards			
					10.0	01.06	ability to install acoustical caulking								
					10.0	01.07	abil	ity to ins	stall pre-1	finished	sound pa	anels			

10.02	Instal	ls lead s	hielding	g.	<u>Sur</u>	porting	Knowle	edge &	<u>Abilities</u>	<u>i</u>							
NF ND	NS yes	PE yes	<u>NB</u> ND	<u>QC</u> yes	ON MB yes yes		<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND					
					10.02.01		know	ledge of	types an	d thickn	ess of le	ad					
					10.0	02.02	knowledge of purposes of lead shielding										
					10.0	02.03	knowledge of lead installation techniques										
					10.0	02.04	knowledge of lead handling precautions										
					10.0	02.05	ability to install lead for X-ray and sound purposes										
					10.0	02.06	ability to measure and cut lead										
					10.0	02.07	ability to seal X-ray conductive perforations in lead panels										

Task 11 Finishes drywall.

Related Components: Drywall tape, drywall compound, drywall trim, sandpaper.

Tools and Equipment: Trowels, knives, tape holder and/or dispenser, pole sander, hand

sander, electric drill, mixer, sponges.

Sub-task

11.01	Selects materials.	Supporting Knowledge & Abilities

<u>NF</u> ND	NS yes	PE yes	<u>NB</u> ND	<u>QC</u> no	ON yes	MB yes	<u>SK</u> yes	AB yes	BC no	NT ND	<u>YK</u> ND	<u>NU</u> ND		
					11.0	01.01	kno	wledge o	of types	of filling	compou	nds		
					11.0	01.02	knowledge of manufacturers' specifications							
					11.0	01.03	knowledge of types of drywall tape							
					11.0	01.04	ability to select the filler/substrate combinate to suit site condition							
					11.0	01.05	05 ability to select tape for given application							

Sub-task

11.02 Applies filler and tape. Supporting Knowledge & Abilities

NF ND	NS yes	PE yes	<u>NB</u> ND	QC no	ON yes	MB yes	<u>SK</u> yes	AB yes	BC no	NT ND	YK ND	NU ND	
					11.0	02.01	kno	wledge o	g and/or o	curing co	onditions		
					11.0	02.02	ability to mix the selected compound to suit conditions						
					11.0	02.03	ability to embed tape						
					11.0	02.04	ability to apply compounds for rough coat						
					11.0	02.05	ability to apply compounds for finish coats						
					11.0	02.06	ability to apply and finish trim						

Sub-task

11.03 Performs finish sanding. Supporting Knowledge & Abilities

<u>NF</u> ND	NS yes	<u>PE</u> yes	NB ND	<u>QC</u> no	ON yes	MB yes	<u>SK</u> yes	AB yes	BC no	NT ND	YK ND	<u>NU</u> ND		
					11.03.01		kno	wledge o	of abrasi	ves				
					11.0	03.02	knowledge of sanding techniques							
					11.03.03 ability to sand joints									
					11.0	03.04	ability to identify deficiencies							
					11.0	3.05	abil	ity to rep	oair defic	eiencies				

BLOCK D

EXTERIOR SYSTEMS

Trends: Greater use of pre-manufactured components, rain screening, and new air/moisture barriers is becoming common.

Task 12 Installs membranes.

Related Components: Plastic sheeting, foil, styrofoam, plastic wrap, building paper,

exterior drywall, pre-engineered panels, plywood sheathing,

cement board, rigid fibreglass, bituthane membrane.

Tools and Equipment: Standard tools (see Appendix A), knife, stapler, caulking gun,

sheeting tape, duct tape.

Sub-task

12.01 Installs interior membranes. Supporting Knowledge & Abilities

<u>NF</u> ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND		
					12.0	1.01	knov	wledge o	of interio	r membi	ranes			
					12.0	1.02	knowledge of purposes of interior membranes and vapour/air barriers							
					12.0	1.03	knowledge of interior membrane in techniques				ane insta	ıllation		
					12.0	1.04	4 ability to place and secure membranes							

12.02	Instal	ls exteri	or mem	branes.	. Supporting Knowledge & Abilities								
NF ND	NS yes	PE yes	NB ND	QC yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	NU ND	
					12.0	02.01	kno	wledge (of types	of exteri	or memb	oranes	
					12.0)2.02		wledge (vapour/	terior m	embranes			
					12.0	02.03	knowledge of exterior membrane installation techniques						
					12.0	02.04	abil	ity to pla	ace and s	secure ex	terior m	embranes	

					12.02.04		abii	ity to pi	ace and s	secure ex	tterior m	embranes			
Sub-ta	sub-task														
12.03	Instal	ls exter	ior shea	thing.	Sup	porting	Knowle	edge & .	Abilities	<u> </u>					
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND			
					12.0		knowledge of types of exterior sheathing materials								
					Sup	porting	Knowle	edge & .	Abilities	<u>.</u>					
					12.0	03.02	kno	wledge (of prope	rties of e	xterior s	heathing			
					12.0	03.03		knowledge of exterior sheathing installation techniques							
					12.0	03.04		ity to mo	easure ar	nd cut sh	eathing 1	material			
						- 26	-								

Task 13 Installs exterior finishes.

Related Components: Furring strips, flashing, building paper, building membranes, lath

and wire, tie wires, attaching hardware, adhesives, foam bases,

cement board bases, pre-manufactured panels.

Tools and Equipment: Standard tools, power tools (see Appendix A for both).

Sub-task

13.01	Install	ls rain s	creen sy	stems.	ems. <u>Supporting Knowledge & Abilities</u>												
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON MB yes yes		SK yes	AB yes	BC yes	NT ND	YK ND	NU ND					
					13.01.01		knowledge of purposes and principles of rain screen systems										
					13.0	01.02	knowledge of rain screen installation techniques										
					13.0	01.03	kno	wledge o	of furring	g installa	tion tech	niques					
					13.01.04 ability to cut and inst				tall flashi	ing							
					13.0	01.05	ability to cut and install furring strips										
					13.01.06		abili	ability to install membrane material									
					13.0	01.07	abil	ity to ins	stall rain	screen s	ystems						

13.02	Install	ls lath/st	tucco wi	re.	Supporting Knowledge & Abilities									
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	SK yes	AB yes	BC yes	NT ND	YK ND	NU ND		
					13.02	2.01	knowledge of types of stucco wire							
					13.02	2.02	knowledge of types of laths							
					13.0	2.03	knowledge of attaching hardware							

13.02.04	knowledge of stucco wire installation techniques
13.02.05	knowledge of lath installation techniques
13.02.06	knowledge of expansion joint requirements
13.02.07	ability to install stucco wire
13.02.08	ability to install laths
13.02.09	ability to install trim, beads, and expansion joints

Supporting Knowledge & Abilities

Sub-task

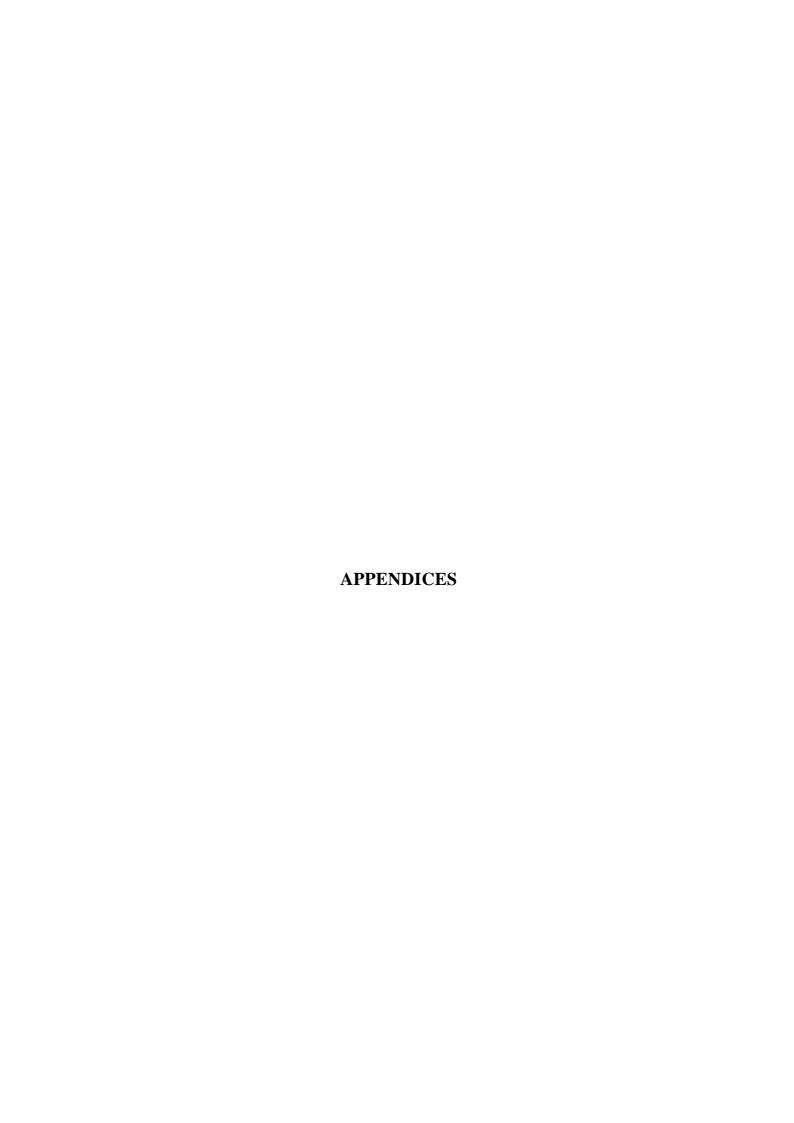
13.03 Installs Exterior Insulation

	Finish	System	(EIFS).												
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC no	NT ND	YK ND	<u>NU</u> ND			
					13.03.01		knowledge of types of EIFS								
					13.03.02		knowledge of base installation techniques								
					13.0	3.03	kno	wledge o	of attachi	ing hard	ware				
					13.0	3.04	kno	wledge o	of adhesi	ves					
					13.0	3.05	kno	wledge o	of trims a	and finisl	nes				
					13.03.06		abili	ity to ins	tall EIFS	\$					
Sub-ta	sk														
13.04	Manu	factures	panels.		Sup	porting	Knowle	edge & A	<u>Abilities</u>						
NF ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	<u>NU</u> ND			
					13.0	4.01	kno	wledge o	of types	of manu	factured	panels			
					13.0	4.02		wledge oniques	of manuf	actured j	panel coi	nstruction			
					13.0	4.03	abili	ity to lay	out fran	ning					
					13.0	4.04	abil	ity to sec	cure fran	ning					

13.04.05 ability to place and install substrate

13.04.06 ability to place and secure exterior finish

13.05	Instal panel	-	nanufac	tured	Supporting Knowledge & Abilities										
<u>NF</u> ND	NS yes	PE yes	NB ND	<u>QC</u> yes	ON yes	MB yes	<u>SK</u> yes	AB yes	BC yes	NT ND	YK ND	NU ND			
					13.0	05.01	knowledge of types of pre-manufactured panels								
					13.0	05.02		knowledge of pre-manufactured panel installation techniques							
					13.0	05.03	kno	wledge	of attach	ing hard	ware				
					13.05.04		abil	lity to se	cure pan	els to cra	ane				
					13.05.05		abil	ability to give hand signals to crane operators							
					13.0	05.06	abil pan		ace and	attach pr	e-manuf	actured			



TOOLS AND EQUIPMENT

Standard Tools

adjustable wrenches measuring tape aviation snips multi-tip screwdriver

broom nippers builders level pails chalk line pencils channel cutters pliers circle cutters plumb bob pop rivet gun clamps calculator rubber mallet caulking gun sandpaper cold chisel scissors

crimpers sharpening stone deck punch spirit level dry line sponge drywall lifter stapler straight edge drywall saw extension cord T-square tack puller files framing square tape measure hack saw tin snips

hammers try square (right angle gauge)

hand sander utility knives
hand snips water level
keyhole saw wire bender
lather's hatchet wrenches
line clips wrecking bar

Safety Equipment

coveralls goggles ear plugs and muffs hard hat exhaust fan life line

eye wash facilities masks (particle, vapour)

face shields portable lighting fall arresters respirators fire blankets rope grabs fire extinguishers safety belt first aid equipment safety glasses fresh air hood safety vest full body harness signage fume and toxic gas detector steel toe boots

gloves warning tapes

Scaffolding and Access Equipment

aluminum planksrolling scaffoldsboatswain's chairsawhorsesboom liftsscissor-lift

ladders stationary scaffolds

ladder jacks stilts lean jacks swing stage

mechanical scaffolds

Power Tools and Equipment

band saw jig saw
chop saw laser level
circular saw
compressor planer

drywall gun powder-actuated tools drywall router power nailer/fastener electric drill power screwdriver electric hammer power shears (snips) electric scissors reciprocating saw

generator router grinder sabre saw heat gun stapler hot knife table saw

hot table

Speciality Tools and Equipment

arc welder moisture meter bolt cutter mig welder grid punch mud pan hanger wire bender pole sander hawk and trowel putty knife knee pads suction cups laser alignment equipment tape holder machine taping tools thermometer magnetic punch transit

BLOCKS AND TASKS WEIGHTING

BLOCK A OCCUPATION SKILLS

%	<u>NF</u> <u>N</u>	<u>NS</u> .0	<u>PE</u> 30	<u>N</u> N		<u>QC</u> 20	ON 15	<u>MB</u> 10	<u>S</u>	<u>K</u> 5	<u>AB</u> 30	BC 15	NT ND	YK NE		NU ND	National Average
	Task 1		Inter	prets	s occi	ıpatio	nal d	ocum	entati	ion.							
		%		<u>NS</u> 10	<u>PE</u> 20	NB ND	<u>QC</u> 10	ON 25	MB 30	<u>SK</u> 44	<u>AB</u> 20	<u>BC</u> 10	NT ND	YK ND		_	21%
	Task 2		Orga	anize	s woı	rk.											
		%	NF ND		<u>PE</u> 25	NB ND	<u>QC</u> 35	<u>ON</u> 22	MB 25	<u>SK</u> 19	<u>AB</u> 20	BC 55		YK ND			29%
	Task 3		Lays	s out	work	ζ.											
		%	NF ND	<u>NS</u> 50	<u>PE</u> 30	NB ND	<u>QC</u> 35	<u>ON</u> 34	MB 30	<u>SK</u> 19		<u>BC</u> 30	NT ND	<u>YK</u> ND		_	34%
	Task 4		Uses	s and	mair	ntains	tools	and e	equip	ment							
		%	NF ND	<u>NS</u> 10	<u>PE</u> 25	NB ND	<u>QC</u> 20	<u>ON</u> 19	MB 15	<u>SK</u> 18	<u>AB</u> 20	<u>BC</u> 5	NT ND	YK ND	<u>NU</u> NI	_	16%

BLOCK B FRAMING

%	NF ND	<u>NS</u> 35	<u>PE</u> 25	NB ND	<u>QC</u> 35	ON 28	<u>MB</u> 15	<u>SK</u> 30	<u>AB</u> 30	BC 45	NT ND	YK ND		National Average 30%
	Task 5	5	Erect	s non-l	oad-be	aring	steel s	tuds.						
		%		NS PH 75 50		<u>QC</u> 35	ON 62	MB S		<u>BC</u> 40	NT ND	YK ND	<u>NU</u> ND	54%
	Task 6	5	Erect	s load-l	earing	steel	studs.							
			NF 1	NS PI	E <u>NB</u>	<u>QC</u>	<u>ON</u>	<u>MB</u> <u>S</u>	<u>K</u> <u>AB</u>	<u>BC</u>	NT	<u>YK</u>	<u>NU</u>	46%

% ND 25 50 ND 65 38 40 50 40 60 ND ND ND

BLOCK C INTERIOR SYSTEMS

																National Average
%		<u>NS</u> 50	<u>PE</u> 30			<u>QC</u> 35	<u>ON</u> 37	MB 50	<u>S</u> <u>S</u> 4:		<u>AB</u> 25	BC 20	NT ND	YK NE		37%
	Task 7		Inst	alls a	ccess	floor	ing sy	ystem	s.							
		%	<u>NF</u> ND	<u>NS</u> 5	<u>PE</u> 40	NB ND	<u>QC</u> 10	<u>ON</u> 9	<u>MB</u> 5	<u>SK</u> 4	<u>AB</u> 5	<u>BC</u> 10	NT ND	YK ND	<u>NU</u> ND	11%
	Task 8		Inst	alls w	vall s	ystem	S.									
		%	NF ND	<u>NS</u> 50	<u>PE</u> 15	NB ND	<u>QC</u> 35	<u>ON</u> 36	<u>MB</u> 40	<u>SK</u> 39	<u>AB</u> 35	<u>BC</u> 50		YK ND		38%
	Task 9		Insta	alls c	eiling	syste	ms.									
		%	<u>NF</u> ND	<u>NS</u> 35	<u>PE</u> 15	NB ND	<u>QC</u> 35	<u>ON</u> 33	MB 30	<u>SK</u> 45	<u>AB</u> 35	<u>BC</u> 30	NT ND	YK ND	<u>NU</u> ND	32%
	Task 10	0	Insta	alls s	ound	barrie	ers and	d lead	l shiel	ding						
		%	<u>NF</u> ND	<u>NS</u> 5	<u>PE</u> 20	<u>NB</u> ND		<u>ON</u> 16	<u>MB</u> 10	<u>SK</u> 7	<u>AB</u> 15	<u>BC</u> 10	NT ND	<u>YK</u> ND		13%
	Task 1	1	Fini	shes	dryw	all.										
		%	<u>NF</u> ND	<u>NS</u> 5	<u>PE</u> 10	<u>NB</u> ND	<u>QC</u> 0	<u>ON</u> 6	MB 15	<u>SK</u> 5	<u>AB</u> 10	<u>BC</u>	NT ND	YK ND	NU ND	6%

BLOCK D EXTERIOR SYSTEMS

													National Average
<u>NF</u>	<u>NS</u>	PE	<u>NB</u>	QC	<u>ON</u>	MB	<u>SK</u>	<u>AB</u>	<u>BC</u>	NT	YK	<u>NU</u>	15%

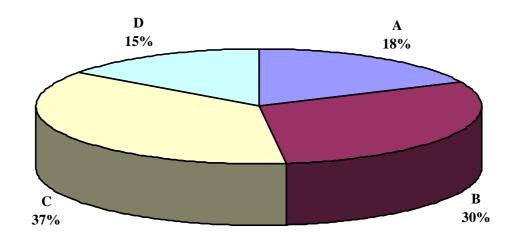
15 ND 10 20 25 10 15 20 ND ND ND

Task 12 Installs membranes.

Task 13 Installs exterior finishes.

PIE CHART*

Lather (Interior Systems Mechanic)



TITLES OF BLOCKS

Block A	OCCUPATION SKILLS	Block C	INTERIOR SYSTEMS
Block B	FRAMING	Block D	EXTERIOR SYSTEMS

^{*} The 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 one hundred up to one hundred and fifty multiple-choice questions on each examination.

	BLOCKS	TASKS	SUB-TASKS					
A	Occupation Skills	1. Interprets occupational documentation.	1.01 Interprets blueprints and specifications.	1.02 Interprets codes and regulations.	1.03 Interprets material documentation.			
ļ		2. Organizes work.	2.01 Prepares work site.	2.02 Estimates materials and supplies.	2.03 Manages time.	2.04 Organizes materials and supplies.	2.05 Co-ordinates work with others.	
		3. Lays out work.	3.01 Establishes grid line/starting point.	3.02 Transfers information from blueprint to work site.				I
		4. Uses and maintains tools and equipment.	4.01 Uses hand tools.	4.02 Uses power tools.	4.03 Uses laser-levelling equipment.	4.04 Uses powder-actuated tools.	4.05 Uses scaffolding and access equipment.	4.06 Maintains tools and equipment.
В	Framing	5. Erects non-load- bearing steel studs.	5.01 Frames walls and ceilings.	5.02 Installs metal door and window frames.	5.03 Installs access panels.			
		6. Erects load-bearing steel studs.	6.01 Frames roofs.	6.02 Frames floors.				
C	Interior Systems	7. Installs access flooring systems.	7.01 Installs pedestals.	7.02 Installs supporting hardware.	7.03 Installs flooring panels.			
		8. Installs wall systems.	8.01 Installs insulation.	8.02 Installs demountable walls.	8.03 Installs drywall.	8.04 Installs shaft walls.	8.05 Installs security mesh.	
		9. Installs ceiling systems.	9.01 Installs suspended ceilings.	9.02 Installs non- suspended ceilings.	9.03 Installs dropped ceilings/bulkheads.			

BLOCKS	TASKS	SUB-TASKS
	10. Installs sound barriers and lead shielding.	10.01 Installs sound barriers. 10.02 Installs lead shielding.
	11. Finishes drywall.	11.01 Selects and tape. 11.02 Applies filler and tape. 11.03 Performs finish sanding.
Exterior Systems	12. Installs membranes.	12.01 Installs interior membranes. 12.02 Installs exterior membranes. 12.03 Installs exterior sheathing.
	13. Installs exterior finishes.	13.01 Installs rain screen systems. 13.02 Installs 13.03 Installs Exterior 13.04 Manufactures 13.05 Installs premanufactured panels. System (EIFS).