

# Lather (Interior Systems Mechanic) Course Outline

**2021-22**



# TRAINING PROFILE CHART

This Training Profile Chart represents Saskatchewan Apprenticeship and Trade Certification Commission (SATCC) technical training at the topic level.

<b>Level One</b>	<b>Hours</b>
Codes, Regulations and General Safety	16
Tools, Equipment and Materials	17
Walls	45
Exterior Stucco Preparation	10
Drywall Applications	46
Component Ceiling Systems	30
Air and Moisture Barriers	12
Blueprint Reading	36
Trade Mathematics	28
	240

<b>Level Two</b>	<b>Hours</b>
Fire Resistive and Acoustical Ratings	8
Wind/Load Bearing Wall and Floor Systems	30
Metal Lath Partitions, Walls and Ceilings	14
Shaft Wall Systems	28
Component and Specialty Ceiling Systems	40
Demountable Partition Systems	20
Specialized Systems	28
Exterior Insulation Finish Systems (EIFS)	24
Blueprint Reading	36
Trade Mathematics	12
	240

<b>Level Three</b>	<b>Hours</b>
Advanced Ceiling Systems	56
Renovations, Walls and Fireproofing	30
Specialized Environments	10
Blueprint Reading	63
Business Fundamentals	41
Final Period Practical Project	40
	240

# TECHNICAL TRAINING COURSE CONTENT

This chart outlines the model for Saskatchewan Apprenticeship and Trade Certification Commission (SATCC) technical training sequencing. For the harmonized level of training, a cross reference to the Red Seal National Occupational Analysis (NOA) apprenticeship technical training sequencing, at the learning outcome level, is provided.

<b>Level One</b>	<b>8 weeks</b>	<b>240 hours</b>
<b>Codes, Regulations and Safety</b> <ul style="list-style-type: none"> <li>• construction safety</li> <li>• project organization</li> <li>• study of regulations</li> <li>• fire prevention and controls</li> <li>• introduction to WHMIS</li> </ul>		<b>16 hours</b>
<b>Tools, Equipment and Materials</b> <ul style="list-style-type: none"> <li>• hand and power tools</li> <li>• scaffolding</li> <li>• materials</li> <li>• explosive actuated tools</li> </ul>		<b>17 hours</b>
<b>Walls</b> <ul style="list-style-type: none"> <li>• various types and specifications</li> <li>• materials and erection</li> <li>• metal framing</li> <li>• furring systems on existing walls</li> <li>• preparations for other trades</li> <li>• application of insulation in walls and ceilings</li> </ul>		<b>45 hours</b>
<b>Exterior Stucco Preparation</b> <ul style="list-style-type: none"> <li>• sheathing and building paper</li> <li>• stucco wire and coatings</li> </ul>		<b>10 hours</b>
<b>Drywall Applications</b> <ul style="list-style-type: none"> <li>• application, layout and installation</li> <li>• taping</li> <li>• drywall ceiling systems</li> </ul>		<b>46 hours</b>
<b>Component Ceiling Systems</b> <ul style="list-style-type: none"> <li>• component ceilings</li> <li>• component baffles</li> </ul>		<b>30 hours</b>
<b>Air and Moisture Barriers</b> <ul style="list-style-type: none"> <li>• application of air and moisture barriers</li> <li>• barrier failures</li> <li>• exterior insulation finish systems (EIFS)</li> </ul>		<b>12 hours</b>
<b>Blueprint Reading</b> <ul style="list-style-type: none"> <li>• drawing instruments and techniques</li> <li>• freehand sketching</li> <li>• drawing to specifications</li> <li>• blueprint interpretation</li> </ul>		<b>36 hours</b>

<b>Trade Mathematics</b>		<b>28 hours</b>
<ul style="list-style-type: none"> <li>• basic applied mathematics</li> <li>• trade problems from basic plans and specifications</li> <li>• metric systems</li> </ul>		
<b>Level Two</b>	<b>8 weeks</b>	<b>240 hours</b>
<b>Fire Resistive and Acoustical Ratings</b>		<b>8 hours</b>
<ul style="list-style-type: none"> <li>• fire and sound ratings</li> <li>• wall and ceiling designs</li> </ul>		
<b>Wind/Load Bearing Wall and Floor Systems</b>		<b>30 hours</b>
<ul style="list-style-type: none"> <li>• wind bearing framing systems</li> <li>• composite metal floor systems and load bearing walls</li> <li>• access floor systems</li> </ul>		
<b>Metal Lath Partitions, Walls and Ceilings</b>		<b>14 hours</b>
<ul style="list-style-type: none"> <li>• fabrication of metal lath partitions, walls and ceilings</li> </ul>		
<b>Shaft Wall Systems</b>		<b>28 hours</b>
<ul style="list-style-type: none"> <li>• shaft wall fabrications</li> <li>• plenum barriers</li> </ul>		
<b>Component and Specialty Ceiling Systems</b>		<b>40 hours</b>
<ul style="list-style-type: none"> <li>• concealed suspension ceiling system</li> <li>• reveal grid and ceiling tile system</li> <li>• metal linear ceiling systems</li> <li>• specialty ceilings</li> </ul>		
<b>Demountable Partition Systems</b>		<b>20 hours</b>
<ul style="list-style-type: none"> <li>• components and installation</li> </ul>		
<b>Specialized Systems</b>		<b>28 hours</b>
<ul style="list-style-type: none"> <li>• pre-cast plaster, glass fibre and reinforced gypsum</li> <li>• component wall treatment and baffles</li> <li>• jigs and templates</li> </ul>		
<b>Blueprint Reading</b>		<b>36 hours</b>
<ul style="list-style-type: none"> <li>• blueprints for commercial building</li> <li>• isolating the lather – drywall and acoustical mechanic work</li> <li>• amplifying drawings with notes</li> <li>• freehand pictorial drawings</li> <li>• specified shop projects</li> </ul>		
<b>Exterior Insulation Finish Systems (EIFS)</b>		<b>24 hours</b>
<ul style="list-style-type: none"> <li>• panelization</li> <li>• on-site application</li> <li>• air and moisture barriers</li> </ul>		
<b>Trade Mathematics</b>		<b>12 hours</b>
<ul style="list-style-type: none"> <li>• trade calculations</li> </ul>		

<b>Level Three</b>	<b>8 weeks</b>	<b>240 hours</b>
<b>Advanced Ceiling Systems</b> <ul style="list-style-type: none"> <li>• adjustments and adaptations from regular layouts</li> <li>• component ceilings</li> <li>• groined drywall and domed metal lath ceiling</li> <li>• specialty ceilings</li> <li>• development and use of jigs and templates</li> <li>• trim and finish components</li> </ul>		<b>56 hours</b>
<b>Renovations, Walls and Fireproofing</b> <ul style="list-style-type: none"> <li>• demountable partition systems</li> <li>• fireproofing</li> <li>• renovations and additions</li> </ul>		<b>30 hours</b>
<b>Specialized Environments</b> <ul style="list-style-type: none"> <li>• introduction to specialized environments</li> <li>• radiation protective systems</li> </ul>		<b>10 hours</b>
<b>Blueprint Reading</b> <ul style="list-style-type: none"> <li>• specifications</li> <li>• blueprints with emphasis on drywall and acoustical mechanic</li> <li>• working drawings</li> <li>• job organization</li> </ul>		<b>63 hours</b>
<b>Business Fundamentals</b> <ul style="list-style-type: none"> <li>• documents and forms</li> <li>• trade math</li> <li>• workplace coaching skills</li> <li>• interprovincial standards</li> </ul>		<b>41 hours</b>
<b>Final Period Practical Project</b> <ul style="list-style-type: none"> <li>• Final period practical examination</li> </ul>		<b>40 hours</b>

# LATHER (INTERIOR SYSTEMS MECHANIC)

## TASK MATRIX CHART

This chart outlines the major work activities, tasks and sub-tasks from the 2012 Lather (Interior Systems Mechanic) National Occupational Analysis. Each sub-task details the corresponding essential skill and level of training where the content is covered.

### A - OCCUPATIONAL SKILLS

<b>A-1 Maintains tools and equipment</b>	<b>1.01 Maintains hand tools</b>  1	<b>1.02 Maintains power tools</b>  1	<b>1.03 Maintains powder-actuated tools</b>  1	<b>1.04 Maintains gas-actuated tools</b>  1	<b>1.05 Maintains pneumatic tools</b>  1
	<b>1.06 Maintains layout and measuring devices</b>  1				
<b>A-2 Organizes work</b>	<b>2.01 Communicates with others</b>  1,2,3	<b>2.02 Uses documentation</b>  1,2,3	<b>2.03 Uses blueprints and drawings</b>  1,2,3	<b>2.04 Plans daily tasks</b>  3	<b>2.05 Estimates materials and supplies</b>  1,2,3
	<b>2.06 Maintains safe work environment</b>  1				
<b>A-3 Performs routine trade activities</b>	<b>3.01 Performs measurements</b>  1,2,3	<b>3.02 Uses scaffolding and access equipment</b>  1	<b>3.03 Uses jigs and templates</b>  2,3	<b>3.04 Prepares work site</b>  1	<b>3.05 Handles materials, supplies and products</b>  1
	<b>3.06 Lays out work</b>  1,2,3	<b>3.07 Applies sealant and gaskets</b>  1,2	<b>3.08 Uses personal protective equipment (PPE) and safety equipment</b>  1		

## B – FRAMING

B-4 Erects non load-bearing steel assemblies	4.01 Frames non load-bearing walls	4.02 Frames spanned ceilings	4.03 Frames suspended drywall ceilings	4.04 Frames non load-bearing bulkheads	4.05 Installs metal door and window frames
	1	1	1	1	1
	4.06 Installs backing				
	1				
B-5 Erects load-bearing steel assemblies	5.01 Frames load-bearing walls	5.02 Frames exterior ceilings and soffits	5.03 Frames load-bearing bulkheads	5.04 Frames load-bearing floors	5.05 Frames load-bearing roofs
	2	2	2	2	2

## C – INTERIOR SYSTEMS

C-6 Installs wall systems and components	6.01 Installs demountable walls	6.02 Installs drywall	6.03 Finishes drywall	6.04 Installs drywall trims and mouldings	6.05 Installs security mesh
	2,3	1	1	1	2
	6.06 Installs access panels				
	1,2				
C-7 Installs ceiling systems	7.01 Installs suspended component ceilings	7.02 Installs non-suspended ceilings			
	1,3	1,3			
C-8 Installs access flooring systems	8.01 Installs pedestals and supporting hardware	8.02 Installs flooring panels			
	2	2			

<b>C-9 Installs sound barriers and lead radiation shielding</b>	<b>9.01 Installs sound barriers</b>  2	<b>9.02 Installs lead radiation shielding</b>  3	
<b>C-10 Installs smoke and fire barriers</b>	<b>10.01 Installs shaft wall systems</b>  2	<b>10.02 Seals penetration</b>  2,3	<b>10.03 Encloses beams, columns and staircases to achieve desired fire rating</b>  2,3

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## D – EXTERIOR SYSTEMS

<b>D-11 Installs insulation and membranes</b>	<b>11.01 Installs thermal insulation</b>  1,2	<b>11.02 Installs interior/exterior membranes</b>  1,2	
<b>D-12 Prepares surface for exterior finishes</b>	<b>12.01 Installs exterior sheathing</b>  1	<b>12.02 Installs lath</b>  2,3	<b>12.03 Installs exterior insulation finish systems (NOT COMMON CORE)</b>  2
<b>D-13 Installs exterior finishes</b>	<b>13.01 Fabricates panels</b>  2	<b>13.02 Installs pre-manufactured panels</b>  2,3	

*\*The Lather (Interior Systems Mechanic) National Occupational Analysis describing the “full scope” of the trade, can be found at [www.red-seal.ca](http://www.red-seal.ca)*

*For more detailed information on course content, please refer to the Lather (Interior Systems Mechanic) Guide to Course Content at [www.saskapprenticeship.ca](http://www.saskapprenticeship.ca)*