



NOVA SCOTIA
APPRENTICESHIP
AGENCY

NOVA SCOTIA
PROGRAM OF STUDY
LATHER
(INTERIOR SYSTEMS
MECHANIC)

Based on the Red Seal Occupational Standard

Nova Scotia Apprenticeship Program of Study

**Lather
(Interior Systems Mechanic)**

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Program Overview

Level 1

Code	Self-directed Learning Modules	Code	Self-directed Learning Modules
LTR-100	Mentoring I	LTR-120	Non-Loadbearing Steel Assemblies I
LTR-105	Safety	LTR-125	Wall Systems and Components I
LTR-110	Tools and Equipment	LTR-130	Insulation
LTR-115	Drawings, Layout and Planning		

Level 2

Code	Self-directed Learning Modules	Code	Self-directed Learning Modules
LTR-200	Loadbearing Steel Assemblies	LTR-215	Ceiling Systems
LTR-205	Non-Loadbearing Steel Assemblies II	LTR-220	Sound Barriers
LT-210	Wall Systems and Components II	LTR-225	Smoke and Fire Barriers

Level 3

Code	Self-directed Learning Modules	Code	Self-directed Learning Modules
LTR-300	Mentoring II	LTR-315	Exterior Systems
LTR-305	Access Flooring Systems	LTR-320	Program Review
LTR-310	Lead Radiation Shielding		

Program Structure

Level 1

Code	Learning Modules	Learning Outcomes	
LTR-100	Mentoring I	1	Demonstrate knowledge of effective communication practices as a learner.
		2	Demonstrate knowledge of strategies for learning skills in the workplace.
LTR-105	Safety	1	Demonstrate knowledge of personal protective equipment (PPE) and safety equipment, their applications, maintenance and procedures for use.
		2	Demonstrate knowledge of maintaining a safe work environment.
		3	Demonstrate knowledge of regulatory requirements pertaining to safety, PPE and safety equipment.
LTR -110	Tools and Equipment	1	Demonstrate knowledge of hand tools, their applications, maintenance and procedures for use.
		2	Demonstrate knowledge of power tools and equipment, their applications, maintenance and procedures for use.
		3	Demonstrate knowledge of layout and measuring devices, their applications, maintenance and procedures for use.
		4	Demonstrate knowledge of access equipment, their applications, maintenance and procedures for use.

Code	Learning Modules	Learning Outcomes
LTR-115		5 Demonstrate knowledge of regulatory requirements pertaining to access equipment
		6 Demonstrate knowledge of jigs and templates, their characteristics and applications.
		7 Demonstrate knowledge of procedures to build jigs and templates.
	Drawings, Layout and Planning	1 Demonstrate knowledge of drawings and specifications and their applications.
		2 Demonstrate knowledge of procedures to interpret and extract information from drawings and specifications.
		3 Demonstrate knowledge of basic layout procedures.
		4 Uses documentation and reference materials.
5 Demonstrate knowledge of procedures to plan project tasks.		
6 Demonstrate knowledge of procedures to handle and store materials, supplies and products.		
LTR-120	Non-Loadbearing Steel Assemblies I	1 Demonstrate knowledge of non-loadbearing assemblies, their components, characteristics and applications.
		2 Demonstrate knowledge of procedures used to frame non-loadbearing walls.

Code	Learning Modules	Learning Outcomes
		3 Demonstrate knowledge of procedures used to frame spanned ceilings.
		5 Demonstrate knowledge of procedures used to frame suspended drywall ceilings.
		6 Demonstrate knowledge of procedures used to frame non-loadbearing bulkheads.
		7 Demonstrate knowledge of procedures used to install metal door frames.
LTR-125	Wall Systems and Components I	1 Demonstrate knowledge of drywall, its characteristics and applications.
		2 Demonstrate knowledge of procedures to install drywall
		3 Demonstrate knowledge of procedures to install access panels.
LTR-130	Insulation	1 Demonstrate knowledge of sealants and gaskets, their characteristics and applications.
		2 Demonstrate knowledge of thermal insulation, their characteristics and applications.
		3 Demonstrate knowledge of procedures to install thermal insulation.

Level 2

Code	Learning Modules	Learning Outcomes	
LTR-200	Loadbearing Steel Assemblies	1	Demonstrate knowledge of loadbearing steel assemblies, their components, characteristics and applications.
		2	Demonstrate knowledge of procedures used to frame loadbearing walls.
		3	Demonstrate knowledge of procedures used to frame exterior ceilings and soffits.
		4	Demonstrate knowledge of procedures used to frame loadbearing bulkheads.
		5	Demonstrate knowledge of procedures used to frame loadbearing floors.
LTR-205	Non-Loadbearing Steel Assemblies II	1	Demonstrate knowledge of metal window frames, their characteristics and applications.
		2	Demonstrate knowledge of procedures used to install metal window frames.
		3	Demonstrate knowledge of procedures to install backing.
LTR-210	Wall Systems and Components II	1	Demonstrate knowledge of procedures to install demountable walls.
		2	Demonstrate knowledge of procedures to finish drywall.
		3	Demonstrate knowledge of procedures to install drywall trims and mouldings.
		4	Demonstrate knowledge of procedures to install security mesh.

Code	Learning Modules	Learning Outcomes	
LTR-215	Ceiling Systems	1	Demonstrate knowledge of suspended ceilings, their components, characteristics and applications.
		2	Demonstrate knowledge of procedures used to install suspended ceilings.
		3	Demonstrate knowledge of non-suspended ceilings, their components, characteristics and applications.
		4	Demonstrate knowledge of procedures used to install non-suspended ceilings.
LTR-220	Sound Barriers	1	Demonstrate knowledge of sound barriers, their characteristics and applications.
		2	Demonstrate knowledge of procedures used to install sound barriers.
LTR-225	Smoke and Fire Barriers	1	Demonstrate knowledge of shaft wall systems, their components, characteristics and applications.
		2	Demonstrate knowledge of procedures used to install shaft wall systems.
		3	Demonstrate knowledge penetrations, their characteristics and applications.
		4	Demonstrate knowledge of procedures used to seal penetrations.
		5	Demonstrate knowledge procedures used to enclose beams, columns and staircases to achieve desired fire rating.

Level 3

Code	Learning Modules	Learning Outcomes	
LTR-300	Mentoring II	1	Demonstrate knowledge of effective communication practices as a mentor.
		2	Demonstrate knowledge of strategies for teaching workplace skills.
LTR-305	Access Flooring Systems	1	Demonstrate knowledge of access flooring systems, their characteristics and applications.
		2	Demonstrate knowledge of procedures to install pedestals and supporting hardware.
		3	Demonstrate knowledge of procedures to install floor panels.
LTR-310	Lead Radiation Shielding	1	Demonstrate knowledge of lead radiation shielding, their characteristics and applications.
		2	Demonstrate knowledge of lead inspection process for radiation.
		3	Demonstrate knowledge of procedures to install lead radiation shielding.
LTR-315	Exterior Systems (includes membranes and exterior finishes) 13.02 membranes Tasks 14 and 15 for exterior finishes	1	Demonstrate knowledge of interior/exterior membranes, their characteristics and applications.
		2	Demonstrate knowledge of procedures to install interior/exterior membranes.
		3	Demonstrate knowledge of procedures to install exterior sheathing.

Code	Learning Modules	Learning Outcomes	
LTR-320		4	Demonstrate knowledge of procedures to install lath.
		5	Demonstrate knowledge of procedures to fabricate panels.
		6	Demonstrate knowledge of procedures to install pre-manufactured panels.
	Program Reviews	1	Demonstrate knowledge of the Occupational Standard and its relationship to the Red Seal Exam.
		2	Demonstrate knowledge of overall comprehension of the trade in preparation for the Red Seal Exam.

2022 Occupational Standard Sub-task to Learning Module Comparison

Sub-task		Learning Modules	
Task A-1 – Performs safety-related functions			
A-1.01	Maintains safe work environment	LTR-105	Safety
A-1.02	Uses personal protective equipment (PPE) and safety equipment	LTR-105	Safety
Task A-2 – Uses tools and equipment			
A-2.01	Uses hand tools	LTR-110	Tools and Equipment
A-2.02	Uses power tools and equipment	LTR-110	Tools and Equipment
A-2.03	Uses powder-actuated tools	LTR-110	Tools and Equipment
A-2.04	Uses gas-actuated tools	LTR-110	Tools and Equipment
A-2.05	Uses pneumatic tools (NOT COMMON CORE)	LTR-110	Tools and Equipment
A-2.06	Uses layout and measuring devices	LTR-110	Tools and Equipment
A-2.07	Uses scaffolding and access equipment	LTR-110	Tools and Equipment
Task A-3 – Organizes work			
A-3.01	Uses documentation and reference materials	LTR-115	Drawings, Layout and Planning
A-3.02	Uses blueprints and drawings	LTR -115	Drawings, Layout and Planning
A-3.03	Plans project tasks	LTR -115	Drawings, Layout and Planning
A-3.04	Estimates materials and supplies	LTR -115	Drawings, Layout and Planning
Task A-4 – Performs routine trade activities			
A-4.01	Performs measurements	LTR-15	Drawings, Layout and Planning
A-4.02	Uses jigs and templates	LTR-110	Tools and Equipment
A-4.03	Handles materials, supplies and products	LTR-105	Drawings, Layout and Planning
A-4.04	Lays out work	LTR-115	Drawings, Layout and Planning
A-4.05	Applies sealants and gaskets	LTR-130	Insulation
Task A-5 – Uses communication and mentoring techniques			
A-5.01	Uses communication techniques	LTR-100	Mentoring I
		LTR-300	Mentoring II
A-5.02	Uses mentoring techniques	LTR-100	Mentoring I
		LTR-300	Mentoring II

Sub-task		Learning Modules	
Task B-6 – Erects non-loadbearing steel assemblies			
B-6.01	Frames non-loadbearing walls	LTR-120	Non-Loadbearing Steel Assemblies 1
B-6.02	Frames spanned ceilings	LTR-120	Non-Loadbearing Steel Assemblies I
B-6.03	Frames suspended drywall ceilings	LTR-120	Non-Loadbearing Steel Assemblies I
B-6.04	Frames non-loadbearing bulkheads	LTR-120	Non-Loadbearing Steel Assemblies I
B-6.05	Installs metal door and window frames	LTR-120	Non-Loadbearing Steel Assemblies I
		LTR-205	Non-Loadbearing Steel Assemblies II
B-6.06	Installs backing	LTR-205	Non-Loadbearing Steel Assemblies II
Task B-7 – Erects loadbearing steel assemblies			
B-7.01	Frames loadbearing walls	LTR-200	Loadbearing Steel Assemblies
B-7.02	Frames exterior ceilings and soffits	LTR-200	Loadbearing Steel Assemblies
B-7.03	Frames loadbearing bulkheads	LTR-200	Loadbearing Steel Assemblies
B-7.04	Frames loadbearing floors	LTR-200	Loadbearing Steel Assemblies
B-7.05	Frames loadbearing roofs	LTR-200	Loadbearing Steel Assemblies
Task C-8 – Installs wall systems and components			
C-8.01	Installs demountable walls	LTR-210	Wall Systems and Components II
C-8.02	Installs drywall	LTR-125	Wall Systems and Components I
C-8.03	Finishes drywall	LTR-210	Wall Systems and Components II
C-8.04	Installs drywall trims and moldings	LTD-210	Wall Systems and Components II
C-8.05	Installs security mesh	LTD-210	Wall Systems and Components II
C-8.06	Installs access panels	LTR-125	Wall Systems and Components I
Task C-9 – Installs ceiling systems			
C-9.01	Installs suspended ceilings	LTR-215	Ceiling Systems
C-9.02	Installs non-suspended ceilings	LTR-215	Ceiling Systems
Task C-10 – Installs access flooring systems			
B-10.01	Installs pedestals and supporting hardware	LTR-305	Access Flooring Systems
B-10.02	Installs floor panels	LTR-305	Access Flooring Systems

Sub-task		Learning Modules	
Task C-11 – Installs sound barriers and lead radiation shielding			
C-11.01	Installs sound barriers	LTD-220	Sound Barriers
C-11.02	Installs lead radiation shielding	LTD-310	Lead Radiation Shielding
Task C-12 – Installs smoke and fire barriers			
C-12.01	Installs shaft wall systems	LTD-225	Smoke and Fire Barriers
C-12.02	Seals penetrations	LTD-225	Smoke and Fire Barriers
C-12.03	Encloses beams, columns and staircases to achieve desired fire rating	LTD-225	Smoke and Fire Barriers
Task D-13 – Installs insulation and membranes			
D-13.01	Installs thermal insulation	LTD-130	Insulation
D-13.02	Installs interior/exterior membranes	LTD-315	Exterior Systems
Task D-14 – Prepares surface for exterior finishes			
D-14.01	Installs exterior sheathing	LTD-315	Exterior Systems
D-14.02	Installs lath	LTD-315	Exterior Systems
D-14.03	Installs Exterior Insulation Finish System (EIFS) (NOT COMMON CORE)	LTD-315	Exterior Systems
Task D-15 – Installs exterior finishes			
D-15.01	Fabricates panels	LTD-315	Exterior Systems
D-15.02	Installs pre-manufactured panels	LTD-315	Exterior Systems