

# **NOVA SCOTIA**

# **PROGRAM OF STUDY**

# **TILESETTER**

Based on the Red Seal Occupational Standard



# **Nova Scotia Apprenticeship Program of Study**

**Tilesetter**

## Acknowledgements

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## Level Structure

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### Level 1

Code	Self-directed Learning Modules	Code	Self-directed Learning Modules
TST-100	Mentoring I	TST-120	Surface Preparation I
TST-105	Safety	TST-125	Mixing I (Tile and Stone)
TST-110	Tools and Equipment	TS-130	Product Finishing
TST-115	Rigging, Hoisting, Lifting and Access Equipment		

### Level 2

Code	Self-directed Learning Modules	Code	Self-directed Learning Modules
TST-200	Quality Control Assessment	TST-215	Material Preparation (Tile and Stone)
TST-205	Mixing II (Mortar Beds)	TST-220	Specialty Products
TST-210	Surface Preparation II		

### Level 3

Code	Self-directed Learning Modules	Code	Self-directed Learning Modules
TST-300	Mentoring II	TST-320	Stone Slabs
TST-305	Drawings and Layout	TST-325	Terrazzo
TST-310	Project Planning	TST-330	Program Review
TST-315	Tile		

## Program Content (Overview)

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### Level 1

Code	Learning Modules		Learning Outcomes
TST-100	Mentoring I	1	Demonstrate knowledge of effective communication practices as a learner.
		2	Demonstrate knowledge of strategies for learning skills in the workplace.
TST-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.
TST-110	Tools and Equipment	1	Demonstrate knowledge of hand tools, their applications, maintenance and procedures for use.
		2	Demonstrate knowledge of power tools, their applications, maintenance and procedures for use.
TST-115	Rigging, Hoisting, Lifting and Access Equipment	1	Demonstrate knowledge of rigging equipment, their applications, maintenance and procedures for use.
		2	Demonstrate knowledge of hoisting and lifting equipment, their applications, maintenance and procedures for use.

Code	Learning Modules	Learning Outcomes	
TST-120	Surface Preparation I	3	Demonstrate knowledge of access equipment, their applications, maintenance and procedures for use.
		4	Demonstrate knowledge of regulatory requirements pertaining to rigging, hoisting, lifting and access equipment.
		1	Demonstrate knowledge of procedures to remove existing surface coverings
		2	Demonstrate knowledge of procedures to clean surfaces.
TST-125	Mixing I (Tile and Stone)	1	Demonstrate knowledge of tile and stone, their characteristics and applications.
		2	Demonstrate knowledge of procedures to mix materials for tile and stone slabs.
TST-130	Product Finishing	1	Demonstrate knowledge of grouts, caulking and sealants, their characteristics and applications.
		2	Demonstrate knowledge of procedures to apply grout to installed products.
		3	Demonstrate knowledge of procedures to caulk and seal installed products.

## Level 2

Code	Learning Modules	Learning Outcomes	
TST-200	Quality Control Assessment	1	Demonstrate knowledge of procedures to assess substrate conditions and deficiencies.



Code	Learning Modules	Learning Outcomes	
TST-205	Mixing II (Mortar Beds)	2	Demonstrate knowledge of procedures to assess product/materials conditions and deficiencies.
		1	Demonstrate knowledge of mortars, their characteristics and applications.
		2	Demonstrate knowledge of procedures to mix materials for mortar beds.
TST-210	Surface Preparation II	1	Demonstrate knowledge of procedures to install membranes.
		2	Demonstrate knowledge of procedures to install mortar beds.
		3	Demonstrate knowledge of procedures to install underlayments.
TST-215	Material Preparation (Tile and Stone)	1	Demonstrate knowledge of tiles and stone, their characteristics and applications.
		2	Demonstrate knowledge of procedures to prepare tiles for installation.
		3	Demonstrate knowledge of procedures to prepare stone slabs for installation.
TST-220	Specialty Products	1	Demonstrate knowledge of procedures to install sound barrier products.
		2	Demonstrate knowledge of procedures to install in-floor heating.
		3	Demonstrate knowledge of procedures to install engineered specialty products.

### Level 3

Code	Learning Modules	Learning Outcomes	
TST-300	Mentoring II	1	Demonstrate knowledge of effective communication practices as a mentor.
		2	Demonstrate knowledge of strategies for teaching workplace skills.
TST-305	Drawings and Layout	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 layout procedures.
TST-310	Project Planning	1	Demonstrate knowledge of procedures to plan and organize projects.
TST-315	Tile	1	Demonstrate knowledge of procedures to install tile and accessories.
		2	Demonstrate knowledge of procedures to finish tile installation.
TST-320	Stone Slabs	1	Demonstrate knowledge of procedures to install stone slabs.
		2	Demonstrate knowledge of procedures to finish stone slab installation.
TST-325	Terrazzo	1	Demonstrate knowledge of terrazzo, their characteristics and applications.
		2	Demonstrate knowledge of procedures to mix materials for terrazzo.

Code	Learning Modules	Learning Outcomes	
TST-330		3	Demonstrate knowledge of procedures to pour terrazzo mixture.
		4	Demonstrate knowledge of procedures to finish terrazzo installation.
	Program Review	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.

## 2023 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	TST-105	Safety
A-1.02	Uses personal protective equipment (PPE) and safety equipment	TST-105	Safety
Task A-2 – Uses and maintains tools and equipment			
A-2.01	Uses tools and equipment	TST-110	Tools and Equipment
A-2.02	Uses access equipment	TST-115	Rigging, Hoisting, Lifting and Access Equipment
A-2.03	Uses rigging, hoisting and lifting equipment	TST-115	Rigging, Hoisting, Lifting and Access Equipment
Task A-3 – Organizes work			
A-3.01	Estimates materials, supplies and labour	TST-305	Project Planning
A-3.02	Organizes materials, supplies and work site	TST-105	Safety
		TST-310	Project Planning
A-3.03	Evaluates damages and deficiencies	TST-200	Quality Control Assessment
A-3.04	Uses communication techniques	TST-100	Mentoring I
		TST-300	Mentoring II
A-3.05	Uses mentoring techniques	TST-100	Mentoring I
		TST-300	Mentoring II
Task B-4 – Removes existing finishes			
B-4.01	Removes surface coverings	TST-120	Surface Preparation I
B-4.02	Cleans surfaces	TST-120	Surface Preparation I
Task B-5 – Evaluates and prepares surface			
B-5.01	Assesses existing substrate	TST-200	Quality Control Assessment
B-5.02	Installs membranes	TST-210	Surface Preparation II
B-5.03	Installs mortar beds	TST-210	Surface Preparation II
B-5.04	Installs underlayments	TST-210	Surface Preparation II
Task B-6 – Installs speciality products			
B-6.01	Installs sound barrier products	TST-220	Specialty Products
B-6.02	Installs in-floor heating	TST-220	Specialty Products
B-6.03	Installs engineered products	TST-220	Specialty Products

Sub-task		Learning Modules	
Task C-7 – Lays out work area			
C-7.01	Confirms site measurements	TST-305	Drawings and Layout
C-7.02	Determines tile layout for best visual effect	TST-305	Drawings and Layout
C-7.03	Lays out grid lines	TST-305	Drawings and Layout
C-7.04	Evaluates rise and run of stairs	TST-305	Drawings and Layout
Task C-8 – Evaluates joints			
C-8.01	Accommodates existing joints	TST-305	Drawings and Layout
C-8.02	Determines additional joint requirements	TST-305	Drawings and Layout
Task D-9 – Inspects materials			
D-9.01	Confirms material consistencies	TST-200	Quality Control Assessment
D-9.02	Checks materials for damage	TST-200	Quality Control Assessment
Task D-10 – Prepares material for installation			
D-10.01	Prepares tiles	TST-215	Material Preparation (Tile and Stone)
D-10.02	Prepares stone slabs	TST-215	Material Preparation (Tile and Stone)
Task D-11 – Mixes materials			
D-11.01	Mixes materials for tile and stone	TST-125	Mixing I (Tile and Stone)
D-11.02	Mixes materials for mortar beds	TST-205	Mixing II (Mortar Beds)
D-11.03	Mixes materials for terrazzo	TST-325	Terrazzo
Task E-12 – Installs tiles			
E-12.01	Applies setting material	TST-315	Tile
E-12.02	Set tiles	TST-315	Tile
E-12.03	Installs accessories	TST-315	Tile
E-12.04	Installs expansion and control joints	TST-315	Tile
E-12.05	Installs tile trim	TST-315	Tile
Task E-13 – Installs stone slabs			
E-13.01	Installs anchors	TST-320	Stone Slabs
E-13.02	Applies stone slab setting material	TST-320	Stone Slabs
E-13.03	Mounts stone slabs	TST-320	Stone Slabs
E-13.04	Sets stone slabs	TST-320	Stone Slabs
Task E-14 – Pours terrazzo mixture			

Sub-task		Learning Modules	
E-14.01	Installs divider strips for terrazzo	TST-325	Terrazzo
E-14.02	Applies bond coat	TST-325	Terrazzo
E-14.03	Trowels in terrazzo mixture	TST-325	Terrazzo
E-14.04	Works surface	TST-325	Terrazzo
<b>Task F-15 – Finishes installed product</b>			
F-15.01	Installs grout	TST-130	Product Finishing
F-15.02	Caulks joints	TST-130	Product Finishing
F-15.03	Seals material	TST-130	Product Finishing
<b>Task F-16 – Finishes terrazzo and stone</b>			
F-16.01	Grinds terrazzo and stone	TST-315	Tile
		TST-320	Stone Slabs
		TST-325	Terrazzo
F-16.02	Grouts terrazzo and stone	TST-315	Tile
		TST-320	Stone Slabs
		TST-325	Terrazzo
F-16.03	Seals terrazzo and stone	TST-315	Tile
		TST-320	Stone Slabs
		TST-325	Terrazzo