

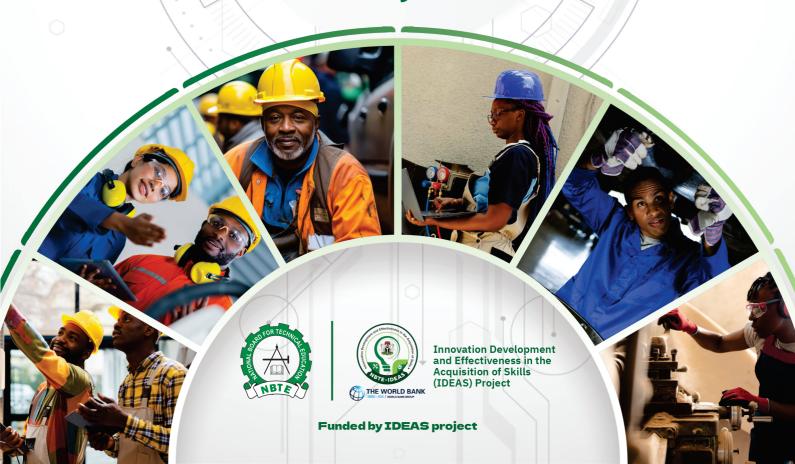
FEDERAL MINISTRY OF EDUCATION

National Skills Qualifications FOR

TILING AND DECORATIVE STONEWORK

LEVEL 1, 2 & 3

February, 2025



National Board for Technical Education

Plot B, Bida Road, P.M.B. 2239, Kaduna, Nigeria



NATIONAL SKILLS QUALIFICATION

TILING AND DECORATIVE STONEWORK

LEVEL 1-3

FEBRUARY,2025

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NATIONAL SKILLS QUALIFICATION

TILING AND DECORATIVE STONEWORK

LEVEL 1

FEBRUARY, 2025

LEVEL: 1 TILING AND DECORATIVE STONEWORK

Level: 1

SUMMARY: This qualification is for those interested in gaining level 1 trade competence in tiling and decorative stonework in furtherance of a career in the construction industry.

NSQ LEVEL: 1

TOTAL GUIDED LEARNING HOURS (GLH) REQUIRED: 180 Hours

Total learning hours 390 +		
Guided learning hours	Independent learning hours	Work-based learning hours
180	210	+

UNIT	UNIT REFERENCE	CREDIT	GLH	UNIT TITLE	REMARKS
01	CON/TL/001/L1	2 20		Health, Safety and Environment in	Mandatory
				Tiling and Decorative Stonework	
02	CON/TL/002/L1	2	20	Communication Systems in a Work	Mandatory
				Environment	
03	CON/TL/003/L1	2	20	Teamwork in a Work Environment	Mandatory
04	CON/TL/004/L1	4	40	Basic Tools, Equipment and Materials	Mandatory
				in tiling and decorative stonework	
05	CON/TL/005/L1	4	40	Surface Preparation for Tiling and	Mandatory
				Stone Decoration Work	
06	CON/TL/006/L1	4	40	Mix Preparation for Tiling and Stone	Mandatory
				Decoration Work	

PURPOSE OF QUALIFICATION:

This qualification is for those interested in developing a career in the construction industry. To gain Level 1 qualification in Tiling and Decorative Stonework, learners must achieve 18 credits from the mandatory units.

NSQ LEVEL: 1

By the end of the level, the Learner should be able to:

- 1. Apply safe work practices and instructions
- 2. Demonstrate communication skills in a work environment
- 3. Depict Teamwork in a work environment
- 4. Use of basic hand tools and equipment in tiling and decorative stonework.
- 5. Use materials in tiling-and stonework installation work
- 6. Prepare surfaces for tiling and decorative stonework
- 7. Mix materials and adhesives for tiling and decorative stonework

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (Reflective account) (PS

Unit 01: Health, Safety and Environment in Tiling and Decorative Stonework

Unit reference number: CON/TL/001/L1

NSQ level: 1
Credit value: 2
Guided learning hours: 20

Unit Purpose: The unit is designed to ensure that at the end, the candidate should be able to comply with Health, Safety and Environmental practices and procedures.

Objectives By completing this mandatory unit, the learner should be able to:

- 1. Demonstrate safe work practices and instructions.
- 2. Recognize the role of learners in maintaining personal health and hygiene.
- 3. Maintain a hygienic, safe and secured workplace.
- 4. Identify potential Hazards at workplace
- 5. Prevent hazards at workplace

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (Reflective account) (PS)

Unit 001: Health, Safety and environment in Tiling and Decorative Stonework

	Performance Criteria	Evidence Type	Evidence Page No.		
	Wear clean, smart and				
1.1	Personal Protective				
	Equipment (PPE).				
1.2	Comply with health, safety				
	and other relevant				
	regulations and guidelines.				
1.3	1				
	·				
	1				
	1				
1.4	_ · · · · .				
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2.1	· ·				
	1				
2.2					
2.3					
2.4					
2.4	· ·				
2.5					
2.5					
3 1					
J.1					
	· · · · · · · · · · · · · · · · · · ·				
3 2					
5.2	•				
3.3			+ + + + + + + + + + + + + + + + + + + +		
5.5					
3.4					
J. T	· ·				
	organic and inorganic waste				
		1 1 1	i 1 1 1		
		1.1 Personal Protective Equipment (PPE). 1.2 Comply with health, safety and other relevant regulations and guidelines. 1.3 Report any cuts, bruises and wounds to personnel such as;	Wear clean, smart and Personal Protective Equipment (PPE). 1.2 Comply with health, safety and other relevant regulations and guidelines. 1.3 Report any cuts, bruises and wounds to personnel such as;		

LO 4	4.1	Identify any bazarda ar					
	4.1	Identify any hazards or					
Identify potential		potential hazards at					
hazards at		workplace.					
workplace	4.2	Describe the types of					
		hazards in the workplace					
	4.3						
		State hazards that can be					
		dealt with personally and					
		those that should be					
		reported to statutory					
		authority.					
LO 5	5.1	Describe how to warn other					
Prevent hazards in		people about hazards and					
workplace.		why this is important.					
	5.2	State why accidents and					
		near accidents should be					
		reported and who it should					
		be reported to.					
	5.3	Describe the types of					
		accidents that may happen					
	5.4	State where to find first aid					
		items					
	5.5	State safe lifting and					
		handling techniques that					
		should be followed					
	5.6	Describe organizational					
		emergency procedures					
	5.7	State the possible causes of					
		fire in the workplace.					
	5.8	Describe how to minimize					
		the possibility of fire in the					
		workplace.					
	5.9	State where to find the				\exists	
		alarms and how to set them					
		off.					
		····		1 1			

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit 2: Communication Systems in a Work Environment

Unit reference number: CON/TL/002/L1

NQSlevel:1Creditvalue:2Guidedlearning hours:20

Unit Purpose:

The unit is designed to ensure that an Assistant Tiler and Assistant Stonework Decorator work within the Tiling and Decorative Stonework environment, establish a quality communication system that is responsive and subject to change in meeting workers and employers need.

Objectives:

By completing this mandatory unit, learner should be able to:

- 1. Use non-complex communication systems in a work environment.
- 2. Identify the sources of information in a work environment.
- 3. Demonstrate the use of various means of communication in a work environment.

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (Reflective account) (PS)

Unit 2: Communication Systems in a Work Environment

LO (Learning Outcome)	Performance Criteria		Evidence Type	Evidence Page No.		
LO 1 Use a non- complex	1.1	Use simple verbal means to pass on information.				
communication system in a work environment	1.2	Use nonverbal means to pass on information e.g. Body Language.				
	1.3	Interpret symbols and signs.				
LO 2 Identify the source of	2.1	Locate the source of information in a work environment.				
information in a work environment	2.2	List the sources of information in a workplace				
	2.3	Identify sources of information.				
	2.4	List the communication equipment required in the work environment.				
	2.5	Follow procedure in reporting findings in in a work environment.				
LO 3 Demonstrate the use of various	3.1	Use various information network flow systems in a work environment.				
means of communication in a work	3.2	Use information to avoid challenges in a work environment.				
environment	3.3	Use effectively the various communication equipment in a work environment.				
	3.4	Pass information effectively to the right personnel.				
	3.5	Pass information effectively using symbols, signs and codes.				
	3.6	Follow channel of communication channels in line with ethics of the work environment.				

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

Unit 3: Team Work in a Work Environment

Unit reference number: CON/TL/003/L1

NSQ level: 1
Credit value: 2
Guided learning hours: 20

Unit Purpose:

The purpose for this unit is educate the learner on how to apply knowledge, skills and understanding and the attitude required to develop team spirit and positive working relationship with colleagues in a work environment.

Objectives: By completing this mandatory unit, learner should be able to:

- 1 Demonstrate positive working relationships with co-workers
- 2 Take responsibility within the team.
- 3 Comply with policies of own organization.

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (Reflective account) (PS)

Unit 3: Teamwork in a Work Environment

LO (Learning Outcome)	Performance Criteria		Evidence Type	Evidence Page No.
LO 1 Demonstrate positive working	1.1	State the need for developing positive working relationships with colleagues.		
relationships with co-workers	1.2	State the importance of relating with co-workers in a way that makes them feel valued and respected.		
	1.3	Assist team members as the need arose.		
	1.4	Identify the appropriate personnel when assistance is required in a work place		
	1.5	Pass information to colleagues about own work that might affect others.		
LO 2 Take responsibility	2.1	State own roles and responsibilities within the team.		
within the team	2.2	Perform individual tasks in line with the team's aspirations.		
	2.3	Participate actively in teamwork.		
LO 3 Comply with	3.1	Work in line with organizational Policies		
policies of own organization	3.2	List some of the organizational Policies in teamwork		
	3.3	Explain the importance of complying with the organization's policies .		

IQAM Signature (if sampled) EQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit reference number: CON/TL/004/L1

Unit 4: Basic Tools, Equipment and Materials in Tiling and Decorative Stonework

NSQ	level:	1
Credit	value:	4
Guided	learning hours:	40

Unit Purpose: The purpose for this unit is to ensure that the assistant tiler/decorative stone worker understands basic tools, equipment and materials used in tiling and stone decorative work.

Objectives: On completion of this mandatory unit, learners should be able to:

- Identify various tools and equipment suitable for tiling and stone decorative works
- 2. Identify construction materials suitable for tiling and stone decorative works
- 3. Identify the Methods of Handling and Storing Materials and Tools for tiling and stone decorative works

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (Reflective account) (PS)

Unit 4: Basic Tools, Equipment and Materials in Tiling and Decorative stonework

LO (Learning Outcome)	Р	erformance Criteria	Evidence Type	Evidence Page No.
LO 1.0 Identify various tools and equipment suitable for tiling and stone decorative work	1.1	List tools and equipment suitable for tiling and stone decorative work, such as trowel, straight edge, spirit level, foam, wooden float,		
	1.0	mechanical tile cutter, glass cutter, measuring tape, mechanical compacting roller etc		
	1.2	Select tools and equipment suitable for tiling and stone decorative work, such as trowel, straight edge, spirit level, foam, wooden float, mechanical tile cutter, glass cutter, measuring tape, tile spacers, pinches, etc		
	1.3	Be able to identify and use the tools and equipment for tiling and stone decorative work.		
LO 2 Identify construction materials suitable for tiling and stone decorative work	2.1	List construction materials suitable for tiling and stone decorative works in both internal and external conditions e.g. • Adhesives • Aggregates of different grades • Ceramic wall/floor tiles of different sizes and colors • Mosaic decorative tiles • Terrazzo tile (precast & in-situ) • Marble tiles • PVC floor Tiles • Clean Water		
	2.2	Identify materials of construction suitable for		

		Lege - Leg	1	1		1	1	
		tiling and stone						
		decorative works in both						
		internal and external						
		conditions e.g.						
		Adhesives						
		 Aggregates of 						
		different grades						
		Ceramic wall/floor						
		tiles of different sizes						
		and colors						
		Mosaic decorative						
		tiles						
		Terrazzo tile (precast						
		& in-situ)						
		Marble tiles						
		PVC floor Tiles						
	2.2	Clean Water Calact materials suitable						
	2.3	Select materials suitable						
		for tiling and stone						
		decorative works in both						
		internal and external						
		conditions e.g.						
		Adhesives						
		 Aggregates of 						
		different grades						
		Ceramic wall/floor						
		tiles of different sizes						
		and colors						
		 Mosaic decorative 						
		tiles						
		Terrazzo tile (precast						
		& in-situ)						
		Marble tiles						
		PVC floor Tiles						
		Clean Water						
LO 3:	3.1	Describe how to handle						
Identify the Methods		tiling/stonework						
of Handling and		materials and tools.						
Storing Materials	3.2	Describe how to store						
and Tools for tiling		tiling/stonework						
and stone		materials and tools.						
decorative work	3.3	Maintain tools and						
		equipment used by						
		Tilers and decorative						
		stone workers.						
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EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit: 5 Surface Preparation for Tiling and Stone Decoration Work

Unit reference number: CON/TL/005/L1

NSQ level: 1
Credit value: 4
Guided learning hours: 40

Unit Purpose: This unit is designed to ensure that Assistant Tilers/Assistant Stone Decorators acquired the knowledge, skills and attitudes for surface preparation in tiling and decorative stonework.

Units Objectives

On completion of this mandatory unit, learners should be able to:

- 1. Prepare surfaces to receive tiles and stonework
- 2. Clean surfaces and tools for tiling and stone decoration works
- 3. Select tiles/stonework for surfaces.

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (Reflective account) (PS)

Unit: 5 Surface Preparation for Tiling and Stone Decoration Work

LO (Learning Outcome)	Performance Criteria			viden	се Туре	Evidence Page No.		ge No.
LO 1 Prepare	1.1	Select tools and equipment						
surfaces to		for surface preparation.						
receive tiles and	1.2	Cut and chisel projected						
stonewor <mark>k</mark>		surfaces before placing						
		decorative stonework/tiles						
	1.3	Fill the chiseled surfaces						
		flush to receive						
		tiles/stonework.						
	1.4	Compact finished surface						
		with tools and equipment						
LO 2	2.1	Carefully select tools for						
Clean surface to		cutting of tiles and						
receive		stonework materials.						
tiles/stonework	2.2	Remove debris away from						
		site and clean site.						
	2.3	Dispose debris in an						
		approved dump site.						
LO3:	3.1	Identify the sizes and						
Select tiles/		shapes of the tile and						
stone for		decorative stone.						
surfaces.	3.2	Safely stockpile tiles and						
		decorative stones in the						
		work area.						
	3.3	Wet stone surfaces and						
		soak tiles before laying in						
		accordance with						
		specifications.						

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit 6: Mix Preparation

Unit reference number: CON/TL/006/L1

NSQ level: 1
Credit value: 4
Guided learning hours: 40

Unit Purpose: The unit is designed to acquire the knowledge, skills and attitudes on selection of materials and approved mix ratios and methods for laying of tiles and decorative stones.

Unit Objectives

On completion of this mandatory unit, learner should be able to:

- 1. Select materials and mix using approved methods for tiling and stone decorative work
- 2. Select tools for mixing materials for tiling and stone decorative work
- 3. Mix adhesives according to approved specification.

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (Reflective account) (PS)

Unit 6: Mix Preparations

LO (Learning		Performance Criteria	Evidence	Туре	Evidence Page No.			
Outcome)								
LO1: Select	1.1	Identify and select materials						
materials and mix		for mixing of adhesives for						
design for laying of		laying of tiles and decorative						
tiles and decorative		stone work such as:-						
stone work.		i) Cement only						
		ii) Cement : Sand						
		iii) White Cement						
		iv) PVC Adhesives						
	1.2	Select different materials for						
		mixing adhesives for tiling and						
		stone decorative work such						
		as:-						
		i) Cement only						
		ii) Cement : Sand						
		iii) White Cement						
		iv) PVC Adhesives						
	1.3	,						
	1.5	Prepare mixing platform by						
		removing dirt with shovel or						
100 0 1 11 1 1	1 1	broom as appropriate.						
LO2: Select tools for	1.1	Select tools for mixing						
mixing materials for		different adhesives for tiling						
tiling and stone		and stone decorative work.						
decorative work	1.2	Use tools and mix different						
		adhesives for tiling and stone						
		decorative work						
	1.3	Properly Clean and store tools						
		after each days' work						
LO 3: Mix adhesives	2.1	Use various batching methods						
according to		for mixing materials as						
approved		follows:						
specification		by normal measuring						
		device (volume) e.g. Guage						
		Box, Head pan, Bucket,						
		Wheelbarrow etc						
		by comparing weighing						
		scales						
	2.2	Mix cement sand screed by						
		manual method						
	2.3	Mix cement sand screed by						
		mechanical method.						
	2.4	Mix Ordinary Portland						
		cement/white cement for						
		grouting in accordance with						
		standard specifications.						
		stanuaru specincations.						

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

NATIONAL SKILLS QUALIFICATION

TILING AND DECORATIVE STONEWORK

LEVEL 2

FEBRUARY, 2025

LEVEL 2: TILING AND DECORATIVE STONEWORK

SUMMARY This qualification is designed to prepare learner to be interested in achieving level 2 qualification in tiling/decorative stonework as well as developing a career in the building construction industry with adequate knowledge, attitude and skills of tiling/stone decorative works

NSQ LEVEL: 2

TOTAL GUIDED LEARNING HOURS REQUIRED: Hours 260

Total learning hours: 590 +		
Guided learning hours	Independent learning hours	Work-based learning hours
260	330	+

200		330		<u>'</u>	
UNIT	UNIT REFERENCE	CREDIT	GLH	UNIT TITLE	REMARKS
01	CON/TL/001/L2	2	20	Health, Safety and Environment	Mandatory
				Practices in work environment.	
02	CON/TL/002/L2	2 20		Communication System in a Work	Mandatory
				Environment	
03	CON/TL/003/L2	2	20	Teamwork in a Work Environment	Mandatory
04	CON/TL/004/L2	3	30	Interpret Information on tile/stone work	Mandatory
05	CON/TL/005/L2	2	20	Erection and dismantling of scaffolds, working platforms and ladders at the workplace	Mandatory
06	CON/TL/006/L2	3	30	Preparations for laying of Wall/Floor tiles.	Mandatory
07	CON/TL/007/L2	4	40	Set Out and Fix Tiles to wall/floor Surfaces	Mandatory
08	CON/TL/008/L2	4	40	Set out and Lay decorative stone on wall/floor surfaces.	Mandatory
09	CON/TL/009/L2	4	40	Prepare floor surface for cement, sand and chippings or granite Mix for terrazzo flooring .	Mandatory

PURPOSE OF QUALIFICATION:

This qualification is for those interested in developing a career in the construction-industry. In order to achieve Level 2 qualification in Tiling and Decorative Stonework. Learners must achieve 26 credits from the mandatory units.

TITLE LEVEL 2: TILING AND DECORATIVE STONEWORK

Unit 01: Health, Safety and Environment

Unit reference number: CON/TL/001/L2

NSQ level: 2
Credit value: 2
Guided learning hours: 20

Unit Purpose: This unit is designed to ensure that by the end of the exercise, the candidate is able to comply with Health, Safety and Environment practices and procedures in accordance with standard procedures, rules and regulations.

Objectives By completing this mandatory unit, the learner must show competence in:

- 1. Health, Safety and Welfare measures on construction sites
- 2. Demonstrate the use of personal protective gears on construction sites
- 3. Demonstrates safety considerations on construction site

- b. Direct Observation (DO)
- c. Question and answers (QA)
- d. Witness Testimony (WT)
- e. Personal statement (Reflective account) (PS)

Unit 001: Health, Safety and Environment

LO (Learning Outcome)		Performance Criteria	erformance Criteria Evidence Type			Evidence Page No.			
L0 1:					İ				
Recognize health,	1.1	Explain health, safety and environment relating to tiling and							
safety and welfare		stone decorative work							
measures on	1.2	Comply with health and safety							
construction sites		regulations relating to tiling and							
		stone decorative work							
	1.3	Carry out activities in a safe and							
		responsible manner in accordance							
		with legislative, official guidance							
		and manufacturer's instruction.							
	1.4	Communicate Recognize health							
		and safety issues relevant to tiling							
		and stone decorative work							
	1.5	Demonstrate how to report							
		accidents and emergencies to							
		appropriate personnel such as;							
		 First Aiders 							
		 Supervisors/Managers 							
		 Health and Safety workers 							
LO2	2.1	Use clean and smart and							
Demonstrate the use		appropriate PPE							
of personal	2.2	Report accidents and emergencies							
protective gears on		to appropriate personnel such as;							
construction sites		 First Aiders 							
		 Supervisors/Managers 							
		 Health and Safety workers 							
	2.3	Clean and store PPE appropriately							
		after use							
L03	2.1	Identify the locat ion of the first aid box							
Demonstrate safety		on site.							
considerations on	2.2	Describe and give examples of key							
construction site		accidents, trends, causes and							
	2.2	prevention on site.							
	2.3	Explain health and safety considerations involved in tiling and							
		stone decorative projects work.							
		Signature projects work.							
				<u> </u>					

Learner's	Signature:	Date:
Assessor's	Signature:	Date:
IQAM Signa	ature (if sampled)	Date:
EQAM Sign	ature (if sampled)	Date:

Unit 2: Communication Systems in a Work Environment

Unit reference number: CON/TL/002/L2

NSQ level: 2
Credit value: 2
Guided learning hours: 20

Unit Purpose:

The unit is designed to ensure that Tiler or Stonework Decorator operates and work within the Tiling and Decorative Stonework environment, establish a quality communication system that is responsive in meeting workers and employers' needs.

Objectives: By completing this mandatory unit, learners should be able to:

- 1. Use non-complex communication system in a work environment
- 2. Identify sources of information in a work environment
- 3. Demonstrate the use of various communication means in a work environment

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (Reflective account) (PS)

Unit: II Communication System in a Work Environment

LO (Learning Outcome)		Performance Criteria	Evide	nce Type	Evidence	e Page No.
LO 1 Use non-complex communication	1.1	Use simple verbal means to pass on necessary information.				
systems in a work environment	1.2	Use nonverbal means to pass on necessary information e.g. Body Language.				
	1.3	Interpret symbols and signs in accordance with instructions.				
LO 2 Identify sources of information in a	2.1	Locate the sources of information in an organization and work environment.				
work environment	2.2	Recognize the sources of information in a workplace.				
	2.3	Use various information flow systems in a work environment.				
	2.4	Use information to avoid challenges in a work situation.				
	2.5	Report Implement findings in accordance with procedure in a work environment.				
LO 3 Demonstrate the use of various communication	3.1	Locate Recognize the various communication equipment in the work environment				
means in a work environment	3.2	Use effectively the various communication equipment in a work environment in accordance specifications				
	3.3	Pass information effectively to the right personnel in accordance with instructions.				
	3.4	Pass information using symbols, signs and codes.				

	3.5	Select instructions in line with ethics of the work environment.							
Learner's Signature: Assessor's Signature: Date: Date:									
IQAM Signature (if sampled)			Date:						
EQAM Signature (if sampled)					Da	ate:			

Unit 3: Teamwork in a work environment

Unit reference number: CON/TL/003/L2

NSQ level: 2
Credit value: 2
Guided learning hours: 20

Unit Purpose: The purpose for this unit is to impact to the learner skills, knowledge and understanding required to develop team spirit and positive working relationship with colleagues.

Objective: On completion of this unit, the learner should be able to:

- 1. Develop a Positive working relationship with colleagues
- 2. Take responsibility within the team
- 3. Comply with policy of organization

- i. Direct Observation (DO)
- ii. Question and answers (QA)
- iii. Witness Testimony (WT)
- iv. Personal statement (Reflective account) (PS)

Unit 3: Teamwork

LO (Learning Outcome)	Performance Criteria		Evidence Type		Evidence Page No.			
LO 1 Develop a Positive working	1.1	Recognize the need for positive working relationships with colleagues.						
relationship with colleagues	1.2	Explain the importance of relating with other people in a way that makes them feel valued and respected.						
	1.3	Use team members when required.						
	1.4	Recognize the personnel when request for assistance.						
	1.5	Explain information to colleagues about own work that might affect others.						
LO 2 Take responsibility	2.1	Recognize own role and responsibility within the team.						
within the team	2.2	Perform individual tasks in line with the team rules and regulations.						
	2.3	Carry out in teamwork in accordance with instructions.						
LO 3 Comply with	3.1	Work Implement in line with organizational policy						
policy of organization	3.2	Use organization code of practice.						
	3.3	Explain the organizational code of conduct.						

IQAM Signature (if sampled) EQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit 4: Interpret Information on Tile/Stone Work

Unit reference number: CON/TL/004/L2

NSQlevel:2Creditvalue:3Guidedlearning hours:30

Unit Purpose: The purpose for this unit is to ensure that the assistant tiler/stone decorator understands the interpretation of working drawings in relation to tiles or stone laid surface in line with job specifications.

Objectives On completion of this mandatory unit, learner should be able to:

- 1. Interpret Information on surfaces to be tiled/laid with stone
- 2. Carryout tiling and stone decorative work using hand tools, power tools and scaffolds
- 3. Set out areas to be tiled or stone laid

- 1 Direct Observation (DO)
- 2 Question and answers (QA)
- 3 Witness Testimony (WT)
- 4 Work Product (WP)
- 5 Personal statement (Reflective account) (PS)

Unit 4: Interpret Information on tile/stone work

LO (Learning	P	Performance Criteria Evidence		vidence Type Evidence		Page No.	
Outcome)			<u> </u>		<u> </u>		
LO 1	1.1	Explain the use of					
Interpret		specifications on					
Information on		tile/stonework					
surfaces to be	1.2	Interpret					
tiled/laid with stone.		tiling/stonework working					
		drawings					
	1.3	Measure the area					
		(Square Meters) of					
		surfaces to be tiled/laid					
		with stonework from the					
		working drawings					
LO 2	2.1	Select tools for tiling and					
Carryout tiling and		stone decorative work such					
stone decorative		as: -					
work using hand		 Trowel 					
tools, power tools		 Spirit Level 					
		Straight Edge					
and scaffolds		• Line					
		 Portable electric saw 					
		machine and drills					
		 Standard Manual Tile 					
		Cutter					
		 Light tile cutter (glass 					
		or diamond cutter)					
		 Tile Spacers 					
		 Measuring tape 					
		 Pinches 					
		 Rubber/Wooden 					
		Mallet					
		 Laser leveling and 					
		measuring tools					
		Stone clamps					
		Stone trimming					
		hammer					
		 Scrapper 					
		 Compacting rammers 					
		Concrete/mortar					
		mixers.					
	2.2	Use the required hand tools					
		suitable for tiling and stone					
	2.2	decorative work.					
	2.3	Use the required power tools suitable for tiling and					
		stone decorative work.					
LO 3	3.1	Use measuring the					
Set out areas to be	J.1	required tools to					
tiled or stone laid		•					
inca or storic tala		measure and take levels					
		for tiling/stonework					

3.2	Use the required tools to set out measured surfaces							
3.3	to be tiled/laid with stone Prepare Mortar with smooth sand & Lime or cement							
3.4	Describe tiles/stonework on surfaces in line with specifications.							
3.5	Carry out gauge & alignment in accordance with specifications							
3.6	Carry out housekeeping on site in accordance with instructions.							
Learner's Signature:			Date:					
Assessor's Signature:			Date:					
IQAM Signature (if sampled)			Date:					
EQAM Signature (if sampled)			Date:					

Unit 05

Unit Title: Erecting and dismantling of scaffolds, working platforms and ladders at the workplace

Unit Reference Number: CON/TL/05/L2

NSQ level: 2
Credit value: 2
Guided learning hours: 20

Unit Purpose: The learner should be able to acquire proficient knowledge, attitudes and skills in erecting and dismantling scaffolds, work platforms and ladders, at workplace environment

Objectives:

- 1. Erect scaffolds, working platforms and ladders at work place.
- 2. Dismantle scaffold, working platforms and ladders at the workplace.
- 3. Store appropriately dismantled scaffold.

- 1. Direct Observation (DO)
- 2. Question and Answers (QA)
- 3. Work product (WP)
- 4. Witness Testimony (WT)
- 5. Personal statement (PS)

Unit: 5 Erection and dismantling of scaffolds, working platforms and ladders at the workplace

LO (Learning	F	Performance Criteria	Evidence Type		/pe	Evidence Page No			No.	
Outcome)					_			1		1
L0 1	1.1	Identify the types and								
Erect scaffold,		quantity of materials								
working		required for erecting a								
platforms and		particular scaffold,								
ladders at work		working platforms and								
place.		ladders at the workplace								
	1.2	Use the required tools								
		and equipment for								
		erecting various								
		scaffold/working								
		platform/ladder in								
		accordance with								
		specifications.								
	1.3	Use scaffolding								
		materials to and from								
		site in accordance with								
		instructions.								
	1.4	Recognize the hazard								
	1.7	and risk in erecting of								
		scaffold, platform and								
		ladders.								
	1.5	Assemblebase for								
	1.5	scaffold and ladders and								
		erect scaffold in								
		accordance with								
		instructions								
L0 2	2.1									
Dismantle	2.1	Select the required tools								
		and equipment to								
scaffolds,		dismantle various								
working		scaffold/working								
platforms and ladders at the		platform/ladder at the								
	0.0	workplace.								
workplace	2.2	Identify hazard and risk								
		in dismantling of scaffold								
		platform and ladders								
	2.3	Dismantle scaffold,								
		platforms and ladders, in								
		accordance with								
		specified guidelines.								
LO 3	3.1	Maintain dismantled								
Store		scaffold materials in								
appropriately		accordance with								
dismantled		instructions.								
scaffold.	3.2	Dismantled scaffold								
		component in								

EQAM Signature (if sampled)			Date:						
IQAM Signature (if sampled)			Date:						
Assessor's Signature						Date:			
Learner's Signatur	e:		Date:						
	3.3	instructions. Dispose defective scaffold materials in accordance with instructions.							
		accordance with							

Unit 6: Preparation for Tiling and Stonework on Wall/Floor surfaces

Unit reference number: CON/TL/006/L2

NSQ level: 2
Credit value: 3
Guided learning hours: 30

Unit Purpose: This unit is designed to ensure that Tilers or Stone Decorators are equipped with the requisite knowledge, skills and attitudes of preparing wall and floor surfaces for tiling/stonework.

Unit Objectives:

- 1. Prepare wall surface for tiling and stonework
- 2. Select equipment for tiling and stonework for large/wide areas
- 3. Carry out tiles/stonework according to specifications

Unit assessment requirements/evidence requirements

In this unit, Tilers/Stone decorators need to show evidence of competence in the identified performance criteria by achieving the mandatory units of the qualification.

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (Reflective account) (PS)

Unit: 6 Preparation for Tiling and Stone on Wall/Floor surfaces

LO (Learning Outcome)	Performance Criteria		Evidence Type			Эе	Evidence Page No.			
LO1: Prepare wall surface for tiling and stone laying	1.1	Prepare surfaces for wall /floor tiling and stone laying in accordance with specifications								
	1.2	Select tools and equipment for surface preparation.								
	1.3	Prepare surfaces before placing decorative stonework/tiles								
LO 2: Select equipment for tiling and stonework for large/wide areas.	2.1	Select equipment and tools required for tiling and stonework including: i. Leveling Instrument ii. Compacting rammers (Manual/ Mechanical) iii.Concrete / Mortar mixer iv.Mechanical tile Cutter v. Portable electric saw etc Use tools and equipment for tiling and decorative								
	2.3	stonework Maintain equipment at the end of each workday.								
LO 3 Cut tiles/stone	3.1	Carry out tiles/stone to flush with openings								
according to specification	3.2	Describe fractional tiles/stones as measured to fit to corners and edges								
	3.3	Cut tiles/stones to size around electrical/plumbing fittings								
	3.4	Construct tiles/stonework for dedo and skirting								

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit: 7 Set Out and Fix Tiles to Wall/floor Surface

Unit reference number: CON/TL/007/L2

NSQ level: 2
Credit value: 4
Guided learning hours: 40

Unit Purpose: This unit is designed to ensure that Tilers are equipped with knowledge, attitudes and skills to interpret drawings, set out and fix tiles to wall/floor surfaces

Objectives:

On completion of this mandatory unit, Tilers should be able to:

- 1. Read drawings and estimate materials
- 2. Measure the quantity of tiles/stonework required for a given areas.
- 3. Measure and set out wall/floor surfaces
- 4. Construct Tiles on wall/floor surfaces
- 5. Carry out tiling joints with suitable adhesives
- 6. Tile internal Corners
- 7. Tile external corners
- 8. Set and lay Glass Blocks
- 9. Set and lay mosaic tiles

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (Reflective account) (PS)

Unit 7: Set Out and Fix Tiles to Wall/Floor Surfaces

LO (Learning Outcome)	Р	erformance Criteria	Evidence Type	Evidence Page No.
LO 1 Interprets working drawings to provide	1.1	Measure the tile area (square meter) from the working drawings		
the materials and cost estimates.	1.2	Describe the number of tiles required to cover one square meter		
	1.3	State the number of tiles per carton of different sizes		
LO 2 Determine the quantity of tile	2.1	Measure surface areas of different shapes and sizes to be tiled		
required by calculations for the areas to be covered	2.2	Use the number of tiles required to cover one meter square		
	2.3	Use the quantity of tile sizes that will cover a given surface area		
	2.4	State the number of tile cartons required for given surface area.		
LO 3 Measure and set out wall/floor surfaces	3.1	Read and interpret working drawings of a simple building project.		
	3.2	Use instruments to measure various linear dimensions		
	3.3	Measure internal/external surfaces		
	3.4	Select an area for tiling from an internal wall/floor surface e.g kitchen.		
	3.5	Measure the length and height of the wall to be tiled		
LO 4 Fix Tiles on wall/floor surfaces	4.1	Determine the line of symmetry, start tiling from there and move both ways		
	4.2	Mix adhesive materials in accordance with specifications.		
	4.3	Select the tiles for the work.		

	11	Soak the tiles in water			<u> </u>		
	4.4	Soak the tiles in water					
		for the required					
		duration of time		1			
	4.5	Remove the tiles from					
		water and allow it to					
		drain					
	4.6	Apply mortar evenly on					
		the unglazed side of the					
		tiles					
	4.7	Set the tiles in position					
		and tap gently with					
		mallet					
	4.8	Use spirit level to check					
	4.0	vertical and horizontal					
	4.0	plumb respectively					
	4.9	Reconcile tile level					
		gauge in line with the					
		specifications					
LO 5	5.1	Mix the required ratio of					
Fill tiling joints with		adhesives e.g. white					
suitable adhesives		cement, OPC etc					
	5.2	Apply adhesives into the					
		joints to flush with tile					
		surface laid					
	5.3	Clean the tile surface with					
107		suitable cleaner					
LO 6	6.1	Set tiles from the middle					
Tile laying of internal		towards the corner; and check if the last one at the					
Corners		corner is fully tiled					
	6.2	Apply adhesive on the last					
	0.2	corner tile and set it to					
		position.					
	6.3	Use square to confirm the		†			
	3.3	angle if it is 90" and check					
		if the corner tile is					
		fractional					
	6.4	Measure the size on the		İ			
		tile mark and cut the tile					
		according to the size					
	6.5	Apply adhesive on the tile				 	
		and fix it to the surface					
LO 7	7.1	Set tiles from the middle					
Tile laying of external		towards the corner; and					
corners		check if the last one at the					
		corner is fully tiled					
	7.2	Apply adhesive on the last					
		corner tile and set it to					
		position.		1			
	7.3	Use square to confirm the					
		angle if it is 90" and check					

		I		1		1	l	l
		if the corner tile is fractional						
	7.4	Measure the size on the						
	7.4	tile mark and cut the tile						
		according to the size						
	7.5	Apply adhesive on the tile						
		and fix it to the surface						
LO 8	8.1	Identify the areas to lay						
Set and lay Glass		glass block						
Blocks	8.2	Measure the area to lay						
		glass blocks on site						
	8.3	Calculate the area of						
		glass block required in						
		square meters (m ²)						
	8.4	Set and level first course						
		of blocks						
	8.5	Use adhesive to bind set						
		blocks						
	8.6	Lay glass blocks and						
		ensure alignment						
		(vertical and horizontal)						
	8.7	Clean the surface using						
		water or other						
		recommended						
		chemicals						
LO 9	9.1	Select tools such as:						
Set and lay mosaic		Utility knife						
tiles		Measuring tape						
		Notched trowel						
		Tile saw						
		Tile Nippers						
		Margin trowel						
		Drill						
		Pencil						
		 Floating board etc. 						
	9.2	Select appropriate						
	7.2	bonding						
		materials/adhesives						
	9.3	Dry lift the tiles and						
	7.5	center the design						
	9.4	Fix mosaic to required						
	7. 4	position using bonding						
		agents						
		agento						

IQAM Signature (if sampled) EQAM Signature (if sampled)	Date: Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit 8: Set Out and Lay Stone Floor Surface

Unit reference number: CON/TL/008/L2

NSQ level: 2
Credit value: 4
Guided learning hours: 40

Unit Purpose: This unit is designed to ensure that Tilers or Stone Decorators are equipped with knowledge and skills of setting out and laying stones on floor surfaces.

Unit Objectives: On completion of this mandatory unit, the learner should be able to:

- 1. Set out surfaces to receive stones
- 2. Calculate quantity of stones required
- 3. Cut stone according to site requirements
- 4. Select adhesives to be used according to specifications and conditions
- 5. Lay stones to specification

- 1.Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (Reflective account) (PS)

Unit 8: Set Out and Lay Stone on wall/floor Surfaces

LO (Learning Outcome)	F	Performance Criteria		Evidence Type			Evidence Page No.			
LO1: Set out surfaces to	1.1	Identify the areas to be laid with stone from the								
receive stones	1.2	working drawing Measure the area to be laid with stone								
	1.3	Set out the surface using tools in accordance with instructions.								
LO 2 Calculate the quantity of stones	2.1	Measure the dimensions of surface to be laid with stone								
required	2.2	Calculate the surface areas to be stoned in square meter (m2)								
	2.3	Determine the quantity of stones required for the calculated area								
LO 3: Cut stones according to site requirements	3.1	Select manual cutting tools e.g Diamond tile cutter/stone chipping hammer								
	3.2	Place the straight edge or square on the tile/stone along the marked line and use the appropriate tool to cut								
	3.3	Cut fractional tiles/stone of different sizes e.g. 50mm, 75mm, 80mm etc								
LO 4: Select adhesives to	4.1	Select adhesive for stone work								
be used according to specifications	4.2	Use adhesive for stones work								
and conditions	4.3	Use cement mixes according to the conditions e.g Damp areas will require harder mixes; dry areas will require lighter mixes								
LO 5: Lay stones to	5.1	Prepare a screed bed to receive stones								
specification	5.2	Lay stone from center to run either direction and ensure alignment								
	5.3	Use the straight edge, line and level to check alignment								
	5.4	Fill the joints with appropriate cement and clean the surface								

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

Unit 9: Forming Sand & Cement, Cement & Chippings or Granite Mix for terrazzo flooring.

Unit reference number: CON/TL/009/L2

NSQ level: 2
Credit value: 4
Guided learning hours: 40

Unit Purpose: This unit is designed to ensure that Tiler or Stone Decorator is equipped with knowledge and skills of forming Sand & cement, cement & chippings or granite mix for terrazzo flooring

Objective:

On completion of this mandatory unit, the learner should be able to:

- 1. Select tools/equipment and materials for terrazzo work
- 2. Place floor screeds to level
- 3. Cast and Polish Terrazzo

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (Reflective account) (PS)

Unit: 9 Forming Sand & Cement, Cement & Chippings or Granite Mix for terrazzo flooring.

LO (Learning		Performance Criteria	Evidence Type	Evidence Page No.			
Outcome)							
LO 1	1.1	Select hand tools and power					
Select		tools suitable for terrazzo work					
tools/equipment		such as:					
and materials		Trowel					
for terrazzo		• Spirit Level					
work		•Straight Edge					
		•Line					
		•roller and compactor					
		Concrete Mixer					
		Metal Square					
		• Hack saw					
		Washing machine					
	1.2	Select appropriate materials					
		suitable for terrazzo					
	1.3	Use tools and equipment suitable					
		for terrazzo work					
LO 2	2.1	Prepare the floor surface, to					
Place floor		receive ebonite strip					
screeds to level	2.2	Divide the area into panels or					
		Bays using ebonite strips suitable					
		for terrazzo thickness					
	2.3	Measure sand and cement					
	2.5	according to specified ratio					
	2.4	Mix sand and cement with water					
	2.4						
	2.5	to requirement					
	2.5	Mix and spread the screed into					
		each panel, level and compact to					
		float					
LO 3	3.1	Bed ebonite strips according to					
Cast and Polish		the design panels with mortar					
Terrazzo	3.2	Cure the mortar for at least 24					
		hours					
	3.3	Measure cement and granite					
		according to the specified ratio					
	3.4	Mix and spread the granite paste					
		into each bay					
	3.5	Level and compact to float with					
	3.3	roller					
	2.6	Cure the surface after it has					
	3.6						
	0 =	hardened in at least 24 hours					
	3.7	Continue curing up to maximum					
		of 28 days					
	3.8	Grind the surface					
	3.9	Polish the surface					

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

NATIONAL SKILLS QUALIFICATION

TILING AND DECORATIVE STONEWORK

LEVEL 3

FEBRUARY, 2025

PURPOSE OF QUALIFICATION:

This qualification is for those interested in developing a career in the construction industry. To gain Level 3 qualification in Tiling and Decorative Stonework, learners must achieve 39 credits from the mandatory unit.

LEVEL 3 TILING AND DECORATIVE STONEWORK

SUMMARY: This qualification is for those interested in attaining master craftsmanship level in Tiling and Decorative Stonework in the building construction industry.

NSQ LEVEL 3

TOTAL GUIDED LEARNING HOURS REQUIRED: Hours 390

Guided learning hours: 390

Total learning hours 915 +		
Guided learning hours	Independent learning hours	Work-based learning hours
390	525	+

UNIT	UNIT REFERENCE	CREDIT	GLH	UNIT TITLE	REMARKS
01	CON/TL/001/L3	2	20	Health, Safety and Environment in	Mandatory
				Tiling and Decorative Stonework	
02	CON/TL/002/L3	2	20	Communication System in a Work	Mandatory
				Environment	
03	CON/TL/003/L3	3	30	Teamwork	Mandatory
04	CON/TL/004/L3	4	40	Math skills in tiling/stonework	Mandatory
05	CON/TL/005/L3	4	40	Estimating in tiling/stonework	Mandatory
06	CON/TL/006/L3	4	40	Lay Wall and Floor tiles	Mandatory
07	CON/TL/007/L3	4	40	Lay and install tiles to internal and	Mandatory
				external corners	
80	CON/TL/008/L3	4	40	Lay Tile on Curved Surfaces	Mandatory
09	CON/TL/009/L3	4	40	Stone works	Mandatory
10	CON/TL/010/L3	4	40	Repair of tile/stonework	Mandatory
11	CON/TL/010/L3	4	40	Project planning	Mandatory

Unit 01: Health, Safety and Environment in Tiling and Decorative Stonework

Unit reference number: CON/TL/001/L3

NSQ level: 3
Credit value: 2
Guided learning hours: 20

Unit Objective On completion of this mandatory unit, the learner should be able to:

- 1. Execute health, safety, and welfare measures on construction sites applicable to tiling/stone decorative work
- 2. Demonstrate the use of personal protective gears
- 3. Ensure personal health and hygiene
- 4. Ensure a hygienic, safe and secured workplace
- 5. Prevent hazards and maintain safe & secured workplace

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 5. Work Product (WP)
- 6. Personal statement (Reflective account) (PS)

Unit 1: Health, Safety and Environment in Tiling and Decorative Stonework

LO (Learning		Performance Criteria		ence 1		idence	Page N	lo.
Outcome)								
Execute health, safety, and Environment on	1.1	Identify health, safety and welfare measures in construction sites relating to tiling and stone decorative						
construction sites applicable to tiling/stone decorative works	1.2	works Apply health and safety regulations relating to tiling/stone decorative works.						
	1.3	Carry out activities in a safe and responsible manner in accordance with standard guidance and manufacturer's instruction.						
	1.4	Demonstrate how to report accidents and emergencies to appropriate personnel such as; • First Aiders • Supervisors/Managers • Health and Safety workers						
LO2	2.1	Use clean and smart PPE in						
Demonstrate the use of personal protective gears	2.2	accordance with instructions. Report accidents and emergencies to personnel such as; • First Aiders • Supervisors/Managers • Health and Safety workers						
	2.3	Clean and store PPE appropriately after use						
LO 3 Ensure personal health and hygiene	3.1	Summarize own responsibility under the health and safety Act as it relates to own occupation						
	3.2	State general rules on hygiene that must be followed.						
	3.3	Identify the use of Personal Protection Equipment such as Head, Foot, Face & Eye, Hand, and Body protection gears among team members.						

	3.4	Explain the importance of maintaining good personal hygiene.				
	3.5	Describe how to deal with cuts, bruises, and wounds and why it is important to do so.				
LO 4 Ensure a hygienic, safe	4.1	State the importance of working in a healthy, safe and hygienic workplace .				
and secure workplace	4.2	Report any accident or near accident quickly and accurately to the authorized person.				
	4.3	Follow health, hygiene and safety procedures during work.				
	4.4	Describe emergency procedures during work				
	4.5	Follow organizational security procedures.				
	4.6	Use disposal of waste and pollution control with organic and inorganic waste disposal methods.				
	4.7	Recognize sound/ noise control and protection methods and guidelines.				
LO 5	5.1	Identify any hazards or potential hazards and deal with it.				
Prevent hazards and maintain safe & secure workplace.	5.2	Describe the types of hazards in the workplace that may occur and how to deal with them.				
	5.3	Monitor safe lifting and handling techniques that should be followed				
	5.4	State ways of working safely that are relevant to own position and why they are important				
	5.5	Analyze organizational emergency procedures and how it should be adhered strictly to				
	5.6	State the possible causes of fire in the workplace.				

5.7	Describe how to minimize the possibility of fire in the workplace.				
5.8	Describe organizational security procedures and why these are important.				
5.9	Describe the importance of reporting all usual and non-routine incidents to the appropriate personnel.				

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit 2: Communication Systems in a Work Environment

Unit reference number: CON/TL/002/L3

NSQlevel:3Creditvalue:2Guidedlearning hours:20

Unit Purpose: Establish quality communication systems that are responsive and reflective in meeting workers and employers' need in work environments.

Objective: On Completion of this mandatory unit, the learner should be able to show level of competence in:

- 1. Using a complex communication system in a work environment
- 2. Supervising the use of various information sources in a work environment
- 3. Demonstrating the use of various means of communication in a work environment

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (Reflective account) (PS)

Unit: 2 Communication Systems in a Work Environment

LO (Learning Outcome)		Performance Criteria Evidence Type		Evidence Page No.
L0 1	1.1	Use verbal means to pass		
Use complex		on necessary information.		
communication	1.2	Use written means to pass		
systems in a work		necessary information		
environment		such as quotation,		
		specifications, request for		
		approvals etc.		
	1.3	Interpret symbols and		
		signs appropriately.		
LO 2	2.1	Locate the source of		
Supervise the use		information in the work		
of various		environment		
information	2.2	Monitor the use of various		
sources in a work		information flow systems		
environment		in a work environment.		
	2.3	Use instructions in line		
		with ethics of the work		
		environment.		
LO 3	3.1	Observe the various		
Demonstrate the		communication equipment		
use of various		in the work environment		
means of	3.2	Use the various		
communication in		communication		
a work		equipment in a work		
environment		environment in		
		accordance with		
		instructions.		
	3.3	Pass information to the		
		right personnel in		
		accordance with		
		instructions.		
	3.4	Pass information using		
	0.5	symbols, signs and codes.		
	3.5	Recognize instructions in		
		line with ethics of the		
		work environment.		

Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

Unit 3: Teamwork

Unit reference number: CON/TL/003/L3

NSQ level: 3
Credit value: 3
Guided learning hours: 30

Unit Purpose: The purpose for this unit is to impact on the learner, knowledge, skills and understanding, required to develop team spirit and positive working relationship with colleagues.

Objective: On completion of this mandatory unit, the learner should be able to show level of competence in:

- 1. Developing Positive working relationships with colleagues
- 2. Taking responsibilities within the team
- 3. Complying with policy of organization.

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (Reflective account) (PS)

Unit: 3 Teamwork

LO (Learning Outcome)		Performance Criteria	Evidence Type		erformance Criteria Evidence Type Evidence Page N			
LO 1 Develop Positive working relationship with	1.1	Explain the importance of positive working relationships with colleagues.						
colleagues	1.2	Monitor team members in accordance with instructions.						
	1.3	Report to the-personnel request for assistance in accordance with instructions.						
	1.4	Communicate with colleagues about own work that might affect others.						
LO 2 Take responsibilities	2.1	Explain own role and responsibilities within the team.						
within the team	2.2	Perform individual tasks in line with the team rules and regulations.						
	2.3	Supervise team members in accordance with instructions.						
LO 3 Comply with policy of	3.1	Identify rules from code of conduct relevant to own trade area						
organization.	3.2	Investigate in line with organizational policy						
	3.3	Observe organizational code of conduct.						

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit 4: Mathematics Skills in Tiling/Decorative Stonework

Unit reference number: CON/TL/04/L3

NSQ level: 3
Credit value: 4
Guided learning hours: 40

Unit Purpose: The purpose of this unit is to impact on the learner, knowledge and skills required by an individual to be proficient in mathematics, relevant to tiling/decorative stone work in the construction industry

Objective: On completion of this mandatory unit, the learner should have competency to:

- 1. Analyze drawings with mathematical method
- 2. Determine angles when cutting tiles according to the size of the angle
- 3. Calculate surface area of floors and walls
- 4. Calculate volume and surface areas of three-dimensional objects

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (Reflective account) (PS)

Unit: 4 Mathematics Skills in Tiling/decorative stonework

LO (Learning Outcome)		Performance Criteria Evidence Type Evidence			
LO 1 Analyze drawings with mathematical	1.1	Carry out basic mathematical operations such as addition, multiplication etc			
methods.	1.2	Use fractional methods to solve practical problems			
	1.3	Add, subtract, multiply and divide with fractions and decimal fractions			
LO 2 Determine angles when cutting tiles	2.1	Measure angle on tiles/stone required for cutting.			
according to the size of the angle	2.2	Measure and cut as many different angles as possible.			
	2.3	Use large wooden or plastic protractor to measure angles.			
LO 3 Calculate surface area of floors and	3.1	Determine area of wall surface in square meter (m2)			
walls	3.2	Assess area of floor surface in square meter (m2)			
	3.3	Measure perimeter of given rectangle in meter as 2(L+B)			
	3.4	Compare different shapes using relevant formulas			
LO 4 Calculate volume	4.1	Measure volume of various shapes			
and surface areas of three- dimensional	4.2	Describe volume of a bedroom, sitting room, convenience e.t.c			
objects.	4.3	Calculate areas of floors, walls in a room			

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit 5: Estimating

Unit reference number: CON/TL/005/L3

NSQ level: 3
Credit value: 4
Guided learning hours: 40

Unit Purpose: The purpose of this unit is to impact the learner with knowledge and skills, required by an individual to be proficient in estimating works, relevant to tiling/decorative stonework in the construction industry.

Objectives

By completing this mandatory unit, Tilers and Stone decorators should show competence in:

- 1 Estimating quantity of tiles/stone from working drawings
- 2 Allowing for waste when estimating
- 3 Evaluating the cost of projects from working drawings

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (Reflective account) (PS)

Unit: 5 Estimating

LO (Learning Outcome)		Performance Criteria		viden	се Туре	Evide	ence Page	No.
LO 1 Estimate quantity of tiles/stone	1.1	Use any working drawing of building, i.e. residential or educational.						
from the working drawing	1.2	Interpret the drawing for to locate the area to be tiled or stonework						
	1.3	Calculate the area to be tiled or decorated with stone						
	1.4	Estimate the quantity of sand and cement required.						
	1.5	Estimate the quantity of adhesive/mortar required.						
	1.6	Request for all materials as required.						
LO 2 Allow for waste	2.1	From drawing, evaluate actual quantity required.						
when estimating	2.2	Allow at least five percent (5%) for waste from cutting fraction.						
	2.3	List ways of minimizing waste						
LO 3 Evaluate cost of	3.1	Calculate the area from drawings						
project from working drawing	3.2	Prepare quotation of materials e.g. Fine aggregate, cement, adhesive, white cement etc.						
	3.3	Order for materials as required.						

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

Unit 6: Lay Wall and Floor Tiles

Unit reference number: CON/TL/006/L3

NSQ level: 3
Credit value: 4
Guided learning hours: 40

Unit Purpose: The purpose of this unit is to impact on the learner, knowledge and skills required to be proficient in the laying of tiles and decorative stones in the construction industry.

Objective: On completion of this mandatory unit, the learner should be able to show level of competence in:

- 1. Organizing mixing for adhesives for Tile work
- 2. Supervising the laying of tiles to level and alignment
- 3. Ensuring tile joints and surfaces are aligned and flat
- 4. Fixing and laying mosaic tiles
- 5. Confirming that grouted joints are straight and uniform in width

- 5. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (Reflective account) (PS)

Unit: 6 Lay Wall and Floor Tiles

1.1	Organize materials for						
1.1	_				1		
	maissing a allegaissa						
	mixing adhesives						
	Prepare position for mixing						
	adhesives according to						
	mechanical or manual						
1.2	methods						
	Monitor the measurements						
1.3	of materials to specification						
	Observe the mixing of						
	adhesive according to						
1.4	requirements						
2.1	Interpret the working						
	drawing to locate area to						
	lay the tiles/stones						
2.2	Supervise setting out the						
	area to receive tiles/stones						
2.3							
	to size and color.						
2.4	Cut any fraction to size						
	_						
	mechanical cutter.						
2.5	Supervise the soaking of						
	tiles to absorb initial water						
	to prevent tiles from						
	·						
	mortar.						
2.6	Lay tiles to standard using						
	adhesives.						
2.7	Ensure tiles are laid,						
	leveled and aligned						
	•						
2.8							
	level.						
2.9	Supervise the grouting of						
	1 .						
2.10	-						
	_						
3.1					+ +		
	1						
	1 .						
	even						
3.2					+ +		
	1.3 1.4 2.1 2.2 2.3 2.4 2.5	Monitor the measurements of materials to specification Observe the mixing of adhesive according to requirements 2.1 Interpret the working drawing to locate area to lay the tiles/stones 2.2 Supervise setting out the area to receive tiles/stones 2.3 Supervise the selection of the tiles required according to size and color. 2.4 Cut any fraction to size using an appropriate mechanical cutter. 2.5 Supervise the soaking of tiles to absorb initial water to prevent tiles from absorbing water from the mortar. 2.6 Lay tiles to standard using adhesives. 2.7 Ensure tiles are laid, leveled and aligned including all fractions. 2.8 Lay the tiles to the final level. 2.9 Supervise the grouting of the joints using adhesives. 2.10 Supervise the cleaning of tile surface and work area. 3.1 Inspect tile joints as work proceed to ensure bond and joint alignment are even	Monitor the measurements of materials to specification Observe the mixing of adhesive according to requirements 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1		accordance with				П
		instructions.				
	2.2					$\vdash\vdash$
	3.3	Evaluate each joint line				
		before proceeding to the				
		next level in accordance				
		with instructions.				\perp
	3.4	Monitor tiling for wall and				
		floor as required to the final				
		point.				
LO 4	4.1	Measure area to receive				
Fix and lay mosaic		mosaic tiles.				
tiles	4.2	Select the color and				
		pattern of mosaic required.				
	4.3	Calculate the surface area				
		to receive mosaic.				
	4.4	Select mosaic tiles and				
		required fixing adhesives				
	4.5	Fix mosaic in position.				
	4.6	Ensure joints are filled.				
	4.7	Ensure the selected pattern				
		is the designed pattern.				
	4.8	Ensure it is set, aligned and				
		truly flat on the wall or floor				
LO 5	5.1	Confirm joint alignment is				
Confirm that		straight.				
grouted joints are	5.2	Confirm joint width are				
straight and		uniform				
uniform in width	5.3	Organize to fill joints width				
		with grout, i.e slurry or				
		thick cement liquid				
	5.4	Organize to clean excess				
		grout on mosaic tiles				

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit 7: Lay and Install Tile to Internal and External Corners

Unit reference number: CON/TL/007/L3

NSQ level: 3
Credit value: 4
Guided learning hours: 40

Unit Purpose: The purpose of this unit is to impact into learner, knowledge and skills required by an individual to be proficient in organizing, supervising and estimating tiling/stone works in the construction industry.

Objective: On completion of this mandatory unit, the learner should have competency to:

- 1. Supervise the preparation for laying of tiles to internal and external corners
- 2. Cut tiles into various fractional sizes
- 3. Supervise the fixing of the corner tiles

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (Reflective account) (PS)

Unit 7: Lay and Install Tiles/Stonework to Internal and External Corners

LO (Learning Outcome)		Performance Criteria	E	vide	nce Ty _l	pe	Ev	idence	Page	No.
LO 1	1.1	Monitor the corners to								
Supervise the		receive the tiles								
preparation for										
laying of tiles to	1.2	Organize tools required								
internal and		to cut tiles into fractional								
external corners		sizes for corners								
	1.3	Analyze materials								
		required for tile laying of								
100	0.4	corners								
LO 2	2.1	Measure the tiles								
Cut tiles into		required for the corners.								
various fractional sizes.	2.2	Carryout cutting of tiles								
Sizes.		to various fractional								
	2.3	sizes. Monitor the fractional								
	2.5	tiles fit into their position								
LO 3	3.1	Observe mix the								
Supervise the	3.1	required mortar in								
fixing of the		accordance with								
corner tiles		specifications.								
Corner lifes	3.2	Observe Soaking of tiles								
	5.2	in water.								
	3.3	Use mortar to on the tile								
	0.0	surface								
	3.4	Monitor that tiles are in								
		accordance								
		specifications.								
	3.5	Carry out the grout of								
		the joints in accordance								
		with specifications.								
	3.6	Guide the cleaning of the								
		working area and tile								
		surface								

Learner's Signature:	Date:
Assessor's Signature:	Date:
IQAM Signature (if sampled)	Date:
EQAM Signature (if sampled)	Date:

Unit: 8 Lay Tiles on Curved Surfaces

Unit reference number: CON/TL/008/L3

NSQ level: 3
Credit value: 4
Guided learning hours: 40

Unit Purpose: The purpose of this unit is to impact on the learner, knowledge and skills, required by an individual to be proficient in tile installation to curved surfaces.

Objective: On completion of this mandatory unit, the learner should have competency to:

- 1. Organize tile work on curved surfaces
- 2. Set out the tile work as required.
- 3. Fix tile to curved surfaces

- 1 Direct Observation (DO)
- 2 Question and answers (QA)
- 3 Witness Testimony (WT)
- 4 Work Product (WP
- 5 Personal statement (Reflective account) (PS)

Unit 8: Lay Tiles on Curved Surfaces

LO (Learning Outcome)		Performance Criteria	Evide	ence Type	E	vidence	e Page I	No.
LO 1 Organize tile work on curved	1.1	Determine the work position from the working drawings						
surfaces	1.2	Ensure tiles are prepared for the position.						
	1.4	Estimate quantity of tiles required						
LO 2 Set out the tile work as required.	2.1	Set out the curved surfaces by checking the layout of the tiles						
	2.2	Mark the position of tiles on the curve.						
	2.3	Organize materials and tools as required.						
LO3 Fix tile to curved	3.1	Measure and cut tiles for curved surface.						
surfaces	3.2	Erect tiles using approved mortar.						
	3.3	Monitor the curve is uniform in accordance with specifications.						
Learner's Signatu	ıre:				Date:			
Assessor's Signat	Signature: Date:							
IQAM Signature (if	sampl	ed)		[Date:			
EQAM Signature (EQAM Signature (if sampled)			I	Date:			

Unit 9: Decorative Stone Works

Unit reference number: CON/TL/009/L3

NSQ level: 3
Credit value: 4
Guided learning hours: 40

Unit Purpose: The purpose of this unit is to impact on the learner, knowledge, attitudes and skills, required by an individual to be proficient in laying decorative stonework finishes in the construction industry

Unit Objectives

On Completion of this mandatory unit, the learner should have competency in:

- 1. Supervising preparation for laying of decorative stones
- 2. Organizing work for decorative stone construction
- 3. Ensuring stone joints and surfaces are aligned and flat

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (Reflective account) (PS)

Unit 9: Decorative Stone Works

LO (Learning Outcome)		Performance Criteria	Evic	lence	Туре	Evidence Page No.			
LO1:	1.1	Identify the positions in							
Supervise	1.1	stonework decoration.							
preparation for laying	1.2	Justify the decorative							
of decorative stones	1.2	stonework to be laid.							
of according cicrico	1.3	Prepare adhesives (mortar) in							
	1.0	accordance with							
		specifications.							
LO 2:	2.1	Monitor the work position							
Organize work for		from the working drawings							
decorative stone	2.2	Calculate the quantity of							
construction		stones required							
	2.3	Supervise the selection of the							
		required decorative stones.							
	2.4	Monitor the Setting-out of the							
		foundation in accordance							
		with specifications.							
	2.5	Cast Monitor the foundation							
		in concrete casting in							
		accordance with							
		specifications.							
	2.6	Use the required tools to							
		dress the stonework							
	2.7	Use mortar the dressed							
		stones in accordance with							
		specifications.							
	2.8	Assess the grout joints and							
		clean work environment in							
		accordance with Instructions.							
LO 3	3.1	Monitor stonework for even							
Ensure stone joints		bond and joint and							
and surfaces are		alignment.							
aligned and flat	3.2	Evaluate joints line before							
		proceeding to the next layer							
		in accordance with							
		instructions.							
	3.3	Compare stonework as							
		required to the final finish							
		point in accordance with							
		specifications.							

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit 10: Repair of Tile/Stone Works

Unit reference number: CON/TL/010/L3

NSQ level: 3
Credit value: 4
Guided learning hours: 40

Unit Purpose: The purpose of this unit is to impact the learner knowledge and skills, required by an individual to be proficient in the maintenance and repairs to the tile/stonework in the construction industry.

Unit Objectives

On Completion of this mandatory unit, the learner is expected to have competency in:

- 2. Supervising the repair and maintenance of tile/stone laid surfaces
- 3. Supervising the selection of tiles/stones for replacement
- 4. Fixing tiles/stones to damaged area.

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Work Product (WP)
- 5. Personal statement (PS)
- 6. Professional discussion (PD)

Unit: 10 Repairs of Tile/Stone Works

LO (Learning Outcome)	Performance Criteria		Εν	vide Typ	nce e	 idend ige No	
L01:	1.1	Rectify damaged tiles or stonework					
Supervise the repair and		area by chiseling.					
maintenance of tile/stone	1.2	Calculate the total area of tiles or					
laid surfaces		decorative stonework to be replaced.					
	1.3	Carry out cleaning of the area for					
		tiles/decorative stonework removed					
LO 2:	2.1	Determine the quantity of					
Supervise the selection of		tiles/stonework and adhesives					
tiles/stones for replacement.		required for the replacement					
	2.2	Selection of tiles/stonework to be					
		replaced according to color.					
	2.3	Organize to Monitor mixing of					
		adhesive/cement grout to be used for					
		re-fixing the tiles.					
LO 3:	3.1	Erect the tiles/stonework in					
Fix tiles/stones to damaged		accordance with specifications.					
area.	3.2	Observe cleaning of the work area					
	3.3	Use tools and equipment are washed					
		and stored properly at the end of each					
		workday					

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

Unit 11: Project Planning

Unit reference number: CON/TL/011/L3

NSQ level: 3
Credit value: 4
Guided learning hours: 40

Unit Purpose: The purpose of this unit is to impact on the learner, knowledge, attitudes and skills, required by an individual, to be proficient in understanding project planning and implementation of construction works.

Unit Objectives:

On completion of this mandatory unit, the learner should be able to show competency to:

- 1. Explain project planning and coordination
- 2. Plan basic activities required for tiling/decorative stonework
- 3. Apply inspection procedures for tiling/stonework

- 1. Direct Observation (DO)
- 2. Question and answers (QA)
- 3. Witness Testimony (WT)
- 4. Personal statement (Reflective account) (PS)

Unit 11: Project Planning

LO (Learning Outcome)	Performance Criteria		Evidence Type		ре	Evidence Page No.		
LO1: Explain project planning and coordination	1.1	Explain the basics of project planning processes and procedures.						
	1.2	Evaluate the factors that affect projects from start to finish						
	1.3	Analyze on type, cost, texture etc implication on tile/stonework						
LO 2: Plan basic activities required for tiling/decorative stonework	2.1	Identify the project drawings.						
	2.2	Determine the area to be tiled/laid with stonework						
	2.3	Estimate and prepare quotation to include prices of material and labor						
	2.4	Organize and arrange tools/equipment and materials						
	2.5	Monitor the tiling/decorative stonework.						
LO 3: Apply inspection procedures for tiling/stonework	3.1	Monitor the job site, check alignment and cleanliness in accordance with specifications.						
	3.2	Observe cracks or lifting of tiles/stonework from surfaces						
	3.3	Evaluate the quality of materials.						
	3.6	Assess compliance with standard operating procedures						

EQAM Signature (if sampled)	Date:
IQAM Signature (if sampled)	Date:
Assessor's Signature:	Date:
Learner's Signature:	Date:

