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SECTION A: QUALIFICATION DETAILS													
QUALIFICATION DEVELOPER (S)				CONSTRUCTION INDUSTRY TRUST FUND									
TITLE		CERTIFICATE III IN TILING								NCQF LEVEL		3	
FIELD		PHYSICAL PLANNING AND CONSTRUCTION		SUB-FIELD		TILING				CREDIT VALUE		42	
New Qualification						✓		Review of Existing Qualification					
SUB-FRAMEWORK		General Education				TVET		✓		Higher Education			
QUALIFICATION TYPE		Certificate	I	II	III	✓	IV	V	Diploma	Bachelor			
		Bachelor Honours			Post Graduate Certificate				Post Graduate Diploma				
		Masters					Doctorate/ PhD						
RATIONALE AND PURPOSE OF THE QUALIFICATION													
<p>RATIONALE:</p> <p>Modern residential, commercial and industrial buildings have their floors, and some of their walls covered in tiles. There is need therefore for qualified tilers who could tile these building to acceptable industry standards</p> <p>Special Coaters, of which tiling is one of them, have been forecasted as one of the top occupations in demand for the future in the construction sector (HRDC, 2019).</p> <p>This qualification provides qualifying learners with wall and floor tiling knowledge, skills and values in order to become competent practitioners in the construction sector; be employed or self-employed within the industry and pursue further learning in specific areas of Building and Construction.</p>													

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PURPOSE:

The Qualification will produce learners who are able to:


- Demonstrate knowledge of tiles
- Set out for laying tiles
- Cutting various types of tiles using different cutting machines
- Lay tiles to various wall surfaces and floor finishes
- Carry out mosaic tiling
- Repair walls and floor surfaces
- Communicate in the building and construction environment.
- Apply health, safety and environment principles in their work
- Plan construction activities using mathematical principles
- Read and interpret building drawings

ENTRY REQUIREMENTS (including access and inclusion)


- NCQF certificate Level II or equivalent.
- There shall be provision for access through RPL and CAT.

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SECTION B		QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)		ASSESSMENT CRITERIA	
1. Apply the principles of Occupational Health and Safety in the Work Environment		1.1 Identify hazards in the Workplace 1.2 Assess possible risks in the workplace 1.3 Practice Good Housekeeping 1.4 Wear Appropriate Personal Protective Equipment	
2. Demonstrate basic knowledge of Entrepreneurial principles in the workplace		2.1 Plan for given work assignments 2.2 Solve problems creatively in the workplace 2.3 Mobilise people and resources to execute tasks 2.4 Create value through implementation of innovative ideas	
3. Interpret building drawings		3.1 Apply technical writing and reading skills to record Construction activities 3.2 Identify technical specifications of the work 3.3 Calculate Quantities of materials required for floor and wall tiling.	
4. Select tiles, adhesives, grout, joints and waterproofing materials for floor and wall tiling		4.1 Identify the range of fixing methods required for the job 4.2 Demonstrate knowledge of tiles to select materials the materials to be used to protect existing finished surfaces 4.3 Explain different types of tiles, and their applications. 4.4 Identify standard specification of various tiling tools and materials by colour coding.	

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	<p>4.5 Demonstrate knowledge of different types of liquid polymeric additives added to cementations grout and explain the effect of their addition</p> <p>4.6 Apply different types of grouts and sealants to fill voids in tiles, marble, granite and stones.</p> <p>4.7 Use different types of processes to prepare respective grouts for tiles and stones</p> <p>4.8 Explain various surface preparation methods for different type of surfaces.</p> <p>4.9 Remove old grouting compounds</p>
5. Prepare surfaces for laying of tiles	<p>5.1 Set out floor and wall tiles on site</p> <p>5.2 Produce setting out templates according to specification and industry standards</p> <p>5.3 Prepare materials to specification requirements</p> <p>5.4 Fill all holes/cracks and clean surfaces</p> <p>5.5 Prepare existing and new surfaces for floor and wall tiling according to industry standards</p> <p>5.6 Install button marks for levelling of surface prior to tiling.</p> <p>5.7 Level surfaces to be tiled</p>
6. Cut out tiles to appropriate sizes and shapes	<p>6.1 Select different machines and tools for cutting different types of tiles</p> <p>6.2 Carry out proper marking before cutting tiles to required shape and size.</p>

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	<p>6.3 Cut tiles as per the design /pattern specifications using appropriate tools to fit around obstacles & into odd spaces & corners.</p> <p>6.4 Determine and cut the required tiles.</p> <p>6.5 Understand the general procedures for cutting tiles.</p> <p>6.6 Use Clean and store wall and floor tiling tools and equipment.</p> <p>6.7 Cut and shape tiles needed for edges, corners, and to fit around fittings and pipes ensuring no chipping/sanding</p>
<p>7. Lay tiles horizontally & vertically on walls and floors</p>	<p>7.1 Apply different procedures for laying tiles on wall, floor and roofs.</p> <p>7.2 Gauge and mix renders: sand and cement mixes in the correct proportions</p> <p>7.3 Fix the centre point or starting point for laying of tiles from the sketches.</p> <p>7.4 Apply correct adhesive evenly to tiles, avoiding excess.</p> <p>7.5 Space tiles accurately, checking level, plumb and square to ensure aligned and levelled.</p> <p>7.6 Install floor and wall tiles to various types of walls to flat, and curved surfaces.</p> <p>7.7 Lay tiles to a bath.</p> <p>7.8 Lay tiles to concrete steps</p> <p>7.9 Finish edge and corners with appropriate finishing methods and strips.</p> <p>7.10 Apply protective material, using barriers to minimize damage to surrounding surfaces</p>

8. Apply grouts and sealants for flooring and cladding works


- 8.1 Standard procedure applicable for the application of grouts on the vertical or the horizontal surface.
- 8.2 Prepare different types of grouts as per surface requirements and manufacturer's specifications.
- 8.3 Carry out proper curing of grout prior to application of sealant.
- 8.4 Apply primers and adhesives to tile substrate on site.
- 8.5 Grout the tiled surface.
- 8.6 Check line' level and alignment of tiled/stoned surface at regular intervals during grouting Apply sealers used for floor and wall tiling on site.
- 8.7 Polish the surface after application of grout in case of epoxy grouts for better aesthetics and smoother joints.
- 8.8 Remove old grouting compound using appropriate tools is required.
- 8.9 Remove excess seal and grout, clean and polish to provide a good finish which meets the specification/customer requirements.
- 8.10 Float finish surface.

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SECTION C	QUALIFICATION STRUCTURE				
COMPONENT	TITLE	Credits Per Relevant NCQF Level			Total (Per Subject/ Course/ Module/ Units)
		Level [3]	Level [4]	Level []	
FUNDAMENTAL COMPONENT <i>Subjects/ Courses/ Modules/Units</i>	Safety, Health And Environmental Protection	2			2
	Fundamental Entrepreneurial Principles	3			3
	Communication Skills	2			2
	TOTAL	7			7
CORE COMPONENT <i>Subjects/Courses/ Modules/Units</i>	Building Construction	2			2
	Floor and Wall Tiles	4			4
	Surface Preparation for Tiling	2			2
	Tiling Materials	3			3
	Primers and Adhesives	2			2
	Grouts and Flexible Sealants	3			3
	Waterproofing Process	3			3
	Mosaic Tiling		4		4

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	Wall and Floor Tiles Repair		4		4
	Tiling Tools and Equipment	3			3
	TOTAL	22	8		30
ELECTIVE/ OPTIONAL COMPONENT <i>Subjects/Courses/ Modules/Units</i>	Decorative Tiling		5		5
	Tile Domestic Pools And Spas		5		5
	Industrial Floor Tiling		5		5
	TOTAL		5		

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SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL	
TOTAL CREDITS PER NCQF LEVEL	
NCQF Level	Credit Value
3	29
4	13
TOTAL CREDITS	42
Rules of Combination:	
<p>The qualification consists of Fundamental, Core and elective Components.</p> <p>To be awarded the Qualification learners are required to obtain a minimum of 42 credits as detailed below.</p> <p>Fundamental Components:</p> <p>The Fundamental components consist of fundamental modules to the value of 7 credits all of which are compulsory</p> <p>Core Components:</p> <p>The core components consist of modules containing applied knowledge and practical skills to the value of 30 credits which are compulsory.</p> <p>Elective Components:</p> <p>Learners are to choose elective unit standard to the value of 5 credits so as to attain a minimum of 42 credits for the qualification.</p>	

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ASSESSMENT ARRANGEMENTS

All assessments leading/contributing to the award of credits or a qualification shall be based on learning outcomes and/or sub-outcomes.

1.1 Formative assessment :

Formative or continuous assessment would be conducted to inform teaching and learning and establish the learner's level of readiness for progression to the next learning unit or module.

Formative assessment shall constitute 60% of the Final Mark

2. Summative assessment :

Internal summative assessments shall be carried out in accordance all applicable examination rules, and the weighting of the assessment shall constitute 40% of the Final Mark


All assessment shall be carried out by BQA registered and accredited Assessors

MODERATION ARRANGEMENTS

There shall be internal and external moderation carried out by BQA registered and accredited Moderators

RECOGNITION OF PRIOR LEARNING

Candidates may submit evidence of prior learning and current competence and/or undergo appropriate forms of RPL assessment for the award of credits towards the qualification in accordance with applicable RPL policies and relevant national-level policy and legislative framework.

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CREDIT ACCUMULATION AND TRANSFER

Candidates would be allowed to accumulate enough credits that would warrant them the award of the qualification. This would include transfers of credits from previous learnings. Candidates would be allowed to accumulate enough credits that would warrant them the award of the qualification. This would include transfers of credits from previous learnings.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Articulation and Education Pathways

Horizontal Articulation:

Graduates of this qualification may consider pursuing to other qualifications on the same levels in the field of Electronics such as

- Certificate III in Bricklaying & Plastering
- Certificate III in Painting and Decorating

Vertical Articulation:

Learners may progress to higher level in the same field such as

- Certificate IV in Tiling
- Certificate IV in Special Coatings

Employment Pathways


Learners who attain this qualification will have competencies and attributes to work as:

- Tiler
- Wall and floor tiler.

QUALIFICATION AWARD AND CERTIFICATION

To be awarded the qualification the candidate must have met the following requirements:

- All exit level outcomes should be achieved
- Minimum of **42** credit completed as according to the rules of combination

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Upon completion of the qualification the candidate will be awarded **CERTIFICATE III IN TILING.**

Certification:

A certificate indicating the award will be issued upon completion.

REGIONAL AND INTERNATIONAL COMPARABILITY


Benchmarking has been done against qualifications registered in the SADC region and beyond to appreciate what is typical of this level and type of qualification out there, in relation to graduate profiling, scope and depth of content, to ascertain regional and international comparability and articulation of the proposed qualification. The outcomes of this process are highlighted below.

The following Similarities and Differences of the qualifications examined were observed.

Similarities

All the six qualifications studied have similar exit outcomes which include the selection of tiling materials, tiling on walls and floors, and tiling on curved surfaces, mosaics, and decorative tiling. Health, Safety and Welfare features in all the qualifications, in recognition of hazards associated with this line of work, which may include slips and cuts.

Despite scanty information on some of the qualifications studied, another similarity is on the assessment aspect. Assessment focuses mainly on practical assessment, as this is skills-based qualification. The assessment methods and tools used check not only the learner's knowledge and ability to perform practical tasks and activities within a familiar context, but also challenges learners to demonstrate their ability to deal with problem situations that might arise in the workplace.

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Differences

Slight variations have been observed in the qualifications studied, especially with regards to the core modules. The Harare Polytechnic in Zimbabwe has included another module to the floor and wall tiling, being cladding.

Another difference observed is the disparity in the credit loading of the qualifications. The South African qualification has 120 credits at NQF Level 3, while credits for the Kenyan qualification has not been stated, but it has duration of 2 weeks. The Manukau Institute of Technology in New Zealand has 171 credits at Level 4. Unfortunately, not much detail about the qualifications from the other countries such as the level, credit weighting, and duration.

Comparability and Articulation

The proposed qualification generally compares well with the qualifications studied since the exit outcomes cover similar scope and depth and are aligned to exit-level descriptors typical of this level and as done within the region and beyond as well as competencies required for employment as a tiler.

The compared qualifications have also included entrepreneurship, safety, and communication in the fundamental modules. This addition will give learners more latitude to venture into self-employment.

REVIEW PERIOD

The qualification will be reviewed after 5 years.