

BQA NCQF QUALIFICATION TEMPLATE

SECTION A: QUALIFICATION DETAILS																			
QUALIFICATION DEVELOPER (S)			Madirelo Training and Testing Centre																
TITLE		Certificate Iv in Clothing Design and Technology								NCQF LEVEL		4							
STRANDS (where applicable)		N/A																	
FIELD		Manufacturing Engineering and Technology								CREDIT VALUE		60							
SUB FIELD		Manufacturing And Processing																	
New Qualification		√		Legacy Qualification						Renewal Qualification									
										Registration Code									
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																			
RATIONALE: <p>The Clothing industry is rapidly growing with new concepts for keeping clothing business alive globally. To survive in the industry new innovations are necessary and in order to meet the demands for the market, a computer-aided design (CAD) system gives opportunity for mass customization in designing. The system enables one to create more styles, random changes, make new design, pattern generation, graded size pattern, marker creation and fabric cutting. By integrating the system with the processes of garment sewing, test of fit and final adjustment, mass customization can be realized in the apparel industry.</p> <p>The Human Resources Development Council Report (HRDC 2023) on Top Occupations in Demand therefore identifies the need for Textiles and Clothing Technicians in Botswana with experience in Patternmaking, pattern grading, marker making, fabric construction (textiles), quality control management and Computer Aided Designing (CAD).</p>																			

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The government of Botswana, through Ministry of Trade and industry issued a Statutory Instrument under Control of Goods, Prices and other Charges Act of 2021 [Caps.43..08] on restriction of importation of school uniforms and accessories like ties, hats and scarfs, as a way of giving local Clothing manufacturers a chance to produce and sell school uniforms locally. Patternmaking and Clothing designing technicians will therefore play a pivotal role in ensuring production of quality garments for retailing.

In education sector, Technical and Vocational Education and Training (TVET) Pitso Action Plan Implementation through HRDC, outlines the contribution of TVET to the development of the national economy particularly in Textiles and Clothing sector and has proven that opportunities for employment are abound. Hence, we aim to produce competent Technicians in Textiles and Clothing, to diversify economy of the country through Clothing manufacturing.

Certificate IV In Clothing Design Technology NCQF Level 4, qualification is therefore developed to equip graduates with necessary knowledge, skill and competence to meet the demands of the advancing Textile and Clothing industry in Botswana.

PURPOSE: (itemise exit level outcomes)

The purpose of the qualification is to equip graduates with broad knowledge, skills, and competences to:

- Use computer software to produce variety of digital clothing designs according to job specification.
- Apply principles of design through proportions, details, and body shape to illustrate clothing from concept to product.
- Study clothing designs styles from designer and produce patterns and markers, to be used for construction garments.
- Apply various textiles techniques on fabrics surfaces to create texture for clothing designing and manufacturing.
- Implement sustainable practices into clothing design and technology entrepreneurship, considering environmental stewardship and social responsibility, and develop strategies to communicate and market these efforts to stakeholders.
- Use of ICT for information retrieval and processing as well as Communication and Collaboration with others

MINIMUM ENTRY REQUIREMENTS (including access and inclusion)

Candidates who possess the following certificates may be considered

- Certificate III, NCQF LEVEL 3 (TVET/GE) or equivalent.
- There will be provision for RPL and CAT for entry according to the national RPL and CAT policy.

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SECTION B QUALIFICATION SPECIFICATION	
GRADUATE PROFILE (LEARNING OUTCOMES)	ASSESSMENT CRITERIA
1. Produce digital designs using drawing software for a specific clothing design project in line with details outlined in the job specification.	1.1 Select a drawing software that suits your preferences and skill level. 1.2 Collect inspiration from various sources such as fashion magazines, online platforms, or other designs. Create a mood board to help visualize and organize your ideas. 1.3 Sketch initial ideas start with rough sketches to get your ideas on paper to address key design elements. 1.4 Recreate your sketches using the drawing software to refine your design, ensuring that it meets all the specified requirements. 1.5 Annotate and add details mentioned in the job specification to help communicate certain elements of the design. 1.6 Refine your design, ensuring that it meets all the specified requirements paying attention to proportions, balance, and overall aesthetics.
2. Apply textile technology to enhance aesthetic aspects of the fabric to be used for a specific project in line with job specification, best practice and organizational standards.	2.1 Explore different fabrics to be used to create innovative designs for applied textiles projects. 2.2 Examine various designs to prepare work plan for suitable textile production according to designer specification. 2.3 Create commercial textile products using various techniques according to job specification. 2.4 Perform quality control and checks on finished products to ascertain conformity to job specification
3. Apply quality control management standards to enhance production output of quality garments in a manufacturing establishment.	3.1 Understand and apply industry garment assembly operations for job breakdown in accordance with organisational standards. 3.2 Prepare fabric information, size specs, apparel componentry, and care label requirements as per tech pack. 3.3 Monitor individual and mass production processes by measuring level of output to maximise production 3.4 Perform pre and post production quality control checks on garments to ascertain conformity to job specification.

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	3.5 Supervise dispatch procedures of finished garments according to order specification and organisational standards
4. Sketch and illustrate clothing designs from concept to final product according to specific requirements and details outlined in job specification.	<p>4.1 Collect inspiration from various sources such as fashion magazines, online platforms, or other designs. Create a mood board to help visualize and organize your ideas.</p> <p>4.2 Create story and mood boards to help visualize and organize your ideas in line with customer needs.</p> <p>4.3 Sketch initial ideas starting with rough sketches to get your ideas on paper to address key design elements.</p> <p>4.4 Create contemporary designs with technical drawings using inspirational elements and principles in line with the stipulated design brief and specification.</p> <p>4.5 Refine your designs, ensuring that it meets all the specified requirements paying attention to proportions, balance, and overall aesthetics.</p> <p>4.6 Present final designs effectively on presentation boards, according to industry standards.</p>
5. Create flat graded patterns and markers to be used to produce garments.	<p>5.1 Select tools and equipment to be used to produce patterns accurately for various design styles.</p> <p>5.2 Adapt pattern blocks into production patterns for various styles according to design specification and customer needs.</p> <p>5.3 Grade patterns components manually into different sizes according to industry standards.</p> <p>5.4 Produce pattern markers to be used as templates for cutting processes in line with job specification and organizational requirements.</p> <p>5.5 Perform quality control and checks on patterns to ascertain conformity to job specification</p>
6. Apply operational techniques including laying and cutting processes to manufacture finished garments.	<p>6.1 Examine the job specification to determine fabrics to be used, processes to be carried out, tools and equipment to be used.</p> <p>6.2 Select fabrics, production patterns, tools and equipment to be used to carry out production processes in line with job specification.</p>

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	<p>6.3 Lay, cut and prepare job for garment construction according to patterns/marker instructions.</p> <p>6.4 Perform joining and finishing methods such as sewing, pressing and other related operations and quality check work for conformity to job specification using quality control standards.</p> <p>6.5 Perform branding, packaging and dispatch of finished garments according to organizational standards</p>
<p>7. Understand and apply broad practical entrepreneurial concepts, essential entrepreneurial qualities and current policies/support structures for entrepreneurial success in Botswana.</p>	<p>1.1 Examine broad entrepreneurial concepts and contemporary issues that have an impact on present day entrepreneurial success.</p> <p>1.2 Conduct a self-assessment in line with identifying necessary qualities for successful entrepreneurship.</p> <p>1.3 Identify business opportunities in a field of interest and select appropriate investment strategies to adopt, considering the associated risks.</p> <p>1.4 Compile documents required for an entrepreneur to establish a company and take advantage of available support structures.</p>
<p>8. Apply Information and Communication Technology for efficient information retrieval, processing as well as communication and collaboration within the context of clothing design and technology</p>	<p>8.1 Read and analyse data from a prepared database.</p> <p>8.2 Enter and manipulate data using ICT tools.</p> <p>8.3 Display data electronically through charts.</p> <p>8.4 Manipulate and present information through the selection of appropriate spreadsheet tools</p>
<p>9. Apply effective fundamental and problem-solving skills while performing assigned duties/tasks according to the set industry standards in an actual work environment.</p>	<p>9.1 Communicate and negotiate with stakeholders to initiate an industrious work-based learning experience.</p> <p>9.2 Perform assigned vocation related tasks to the required standards.</p> <p>9.3 Apply effective fundamental (core) skills throughout the duration of the work-based learning program.</p> <p>9.4 Adhere to health and safety requirements at all times.</p> <p>9.5 Demonstrate problem solving skills as and when problems are encountered during the work process.</p> <p>9.6 Contribute effectively to teamwork initiatives within the work environment.</p> <p>9.7 Evaluate the work-based learning experience, to determine its benefits and or limitations</p>

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SECTION C		QUALIFICATION STRUCTURE			
COMPONENT	TITLE	Credits Per Relevant NCQF Level			Total Credits
		Level [3]	Level [4]	Level [5]	
FUNDAMENTAL COMPONENT Subjects/ Courses/ Modules/Units	ICT		2		2
	Entrepreneurship		2		2
CORE COMPONENT Subjects/Courses/ Modules/Units	Computer Aided Design (CAD) in Fashion I		3		3
	Applied Textile Technology		3		3
	Quality Control in Apparel Production		2		2
	Apparel Illustration I		3		3
	Creative Design I		3		3
	Patternmaking I		5		5
	Garment Construction I		5		5
	Work Based Learning		32		32
STRANDS/ SPECIALIZATION		Credits Per Relevant NCQF Level			Total Credits
		Level [3]	Level [4]	Level [5]	
	N/A	N/A	N/A	N/A	N/A
2.	N/A	N/A	N/A	N/A	N/A
Electives	N/A	N/A	N/A	N/A	N/A

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SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL

TOTAL CREDITS PER NCQF LEVEL

NCQF Level	Credit Value
NCQF Level 4	60
TOTAL CREDITS	60

Rules of Combination:

(Please Indicate combinations for the different constituent components of the qualification)

The qualification is made up of fundamentals, core components and electives.

A candidate is required to achieve the stipulated total of **60 credits** of which **56 credits** for core modules and **4 credits** for fundamentals, to be awarded the qualification.

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ASSESSMENT ARRANGEMENTS

The weightings for the assessment will be as follows:

1. Formative assessment

The weighting of formative assessment is 60% of the final assessment mark.

2. Summative Assessment

The weighting of summative assessment is 40% of the final assessment mark.

Internal and external assessment are performed in the qualification. Both internal and external assessment are done in-line with the national assessment policy expectations. Assessors must be registered with a recognised relevant regulatory body.

MODERATION ARRANGEMENTS

Internal and external moderation are performed in assessments for the qualification. Both internal and external moderation are done in-line with the national moderation policy expectations. Moderator must be registered with a recognised relevant regulatory body.

RECOGNITION OF PRIOR LEARNING

There shall be provision for award of the qualification through Recognition of Prior Learning (RPL) in accordance with institutional policies in line with the national RPL policy.

CREDIT ACCUMULATION AND TRANSFER

Credits Accumulated and Transfer will be applicable for gaining credits towards graduation and shall be carried out as per ETP policy which is aligned with BQA / national policy.

PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)

Learning Pathways.

Horizontal Articulation

Graduates of this qualification may consider pursuing related qualifications in the following:

- Certificate IV in Applied Textile Design
- Certificate IV in Fashion Merchandising
- Certificate IV in Fashion Marketing and Buying

Vertical Articulation

Graduates may progress to level 5 in;

- Certificate V in Clothing Design and Technology
- Advanced Certificate in Apparel Design
- Higher Certificate in Fashion Design

Employment Pathways.

On completion of the course the candidates can either get employed or become a self-employed entrepreneur in any one of the following fields.

- Machine Operator/ seamstresses
- Sample maker in Clothing industry.
- Assistant Apparel designer.
- Assistant Patternmaker.
- Assistant Fashion Illustrator
- Showroom assistant

QUALIFICATION AWARD AND CERTIFICATION

Minimum standards of achievement for the award of the qualification

A candidate is required to achieve the stipulated total of 60 credits inclusive of 4 credits for fundamentals, 56 credits for core units, to be awarded the qualification. Therefore, there is no provision for early exit from any qualification with a compensatory award.

Certification

Candidates meeting prescribed requirements will be awarded Certificate IV in Clothing Design and Technology qualification, in accordance with standards prescribed for the award of the qualification and applicable policies.

SUMMARY OF REGIONAL AND INTERNATIONAL COMPARABILITY

Similarities.

A comparative analysis was taken in order to compare the relevance and standards implemented in the developed qualification of Certificate IV in Clothing Design and Technology to qualifications offered regionally and internationally.

Regional qualifications –Pearson BTEC International in Art and Design (Fashion) from **Mcensal School of Fashion Design in Kenya** and Higher Certificate in Fashion from **Stadio School of Fashion in South Africa** compares well to **qualification- BTEC International in Art and Design (Fashion) of The New School Parsons/ Pearson College, New York U.S.A)**, as they have similar main exit outcomes, which aims to produce graduates with skill and competence in clothing design. Graduates will be able to meet demands in the fashion industry through creative designing, production of patterns and construction of garments. In order to keep up with advancing digital technology in Clothing production, all the above named qualifications have included designing using computer software (CAD) as one of main exit outcomes. The developed Certificate V in Clothing Design and Technology qualification, like regional and international qualifications is designed for graduates to gain skill and competence in creative clothing design, textiles designing production of patterns and garment manufacturing. Designing with computers is also included as in regional and international qualifications. Credit weight for Mcensal School of Fashion in Kenya and The New School Parsons/ Pearson College in New York is 60 and similar to the developed qualification.

Modules titles for regional and international qualifications are similar being, illustration and sketching, patternmaking, textiles production and garment production. Naming of modules like Fashion flats, Design, Illustration, pattern drafting and garment construction, though different in names but refers to the processes. Apparel illustration, creative designing, applied textile technology are some of similar module in the developed qualification. Apparel is a fashion terminology referring to clothing therefore Fashion Design is a combination of both design and

technology (production).

Additionally, regional and international qualifications have similar electives modules being, Marketing and Brand management,

Fashion business, merchandising and fashion marketing which is similar to entrepreneurship module in the developed qualification. These modules they are all structured for graduates to have global perspective on fashion retailing and merchandising.

Differences.

Notable differences observed on regional qualification and international qualifications includes work- based learning which a core module on the developed qualification. Credits for regional qualification of Stadio School of Fashion are higher at 120 compared to 60 credits for the developed qualifications. This benchmark was important as it covers wider learning scope to produce technicians with broad knowledge, skills, and competences regionally.

Modules named Worth to Westwood: Fashion from the 19th to the 21st Century and Colour theory internationally are inclusive as standalone core modules but on the developed qualifications they are embedded on Creative design module. Module of Quality Control in Apparel Production is included only in the developed qualification, as it is a newly identified need for local clothing manufacturing.

Assessments differs regionally at Stadio Fashion School being theory and practicals while internationally at The New School Parsons/ Pearson College assessment is through portfolio and projects only. For the developed qualification assessments is through written, practical emanations and portfolio.

Comparability and articulation of the proposed qualification with the ones examined

On successful completion of this qualification graduates of regional and international qualification can progress vertically to Degree or Diploma in Fashion Design and Advanced Certificates and Diplomas in fashion design. For the developed qualifications graduates can do a similar qualifications of Certificate IV in Applied Textile Design, Certificate IV in Fashion Merchandising and Certificate IV in Fashion Marketing and Buying .Graduates of the developed qualification can progress to a higher level of Certificate V in Clothing Design and Technology, Advanced Certificate in Apparel Design and Higher Certificate in Fashion Design

Graduates for regional and international qualification can be employed as Assistant Stylist, Junior Designer, Seamstress, Junior Patternmaker, Social media curator, Assistant stylist, Make-up artist and fashion Bloggers.

For the developed qualification graduates can be employed as Machine Operator/ seamstresses, Sample maker in Clothing industry, Assistant Apparel designer, Assistant Patternmaker, Assistant Fashion Illustrator and Showroom assistant.

From the information above it is evident that the developed qualification compares favorably well with the regional and international qualifications.

REVIEW PERIOD

This qualification shall be reviewed every 5 years. However, a review might be undertaken earlier when need arises.

For Official Use Only:

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CODE (ID)			
REGISTRATION STATUS	BQA DECISION NO.	REGISTRATION START DATE	REGISTRATION END DATE
LAST DATE FOR ENROLMENT		LAST DATE FOR ACHIEVEMENT	



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