

**BQA NCQF Qualification Template**

DNCQF.FDMD.GD03

Issue No.: 01

<b>SECTION A: QUALIFICATION DETAILS</b>													
<b>QUALIFICATION DEVELOPER</b>		Textile and Clothing Institute of Botswana											
<b>TITLE</b>	Certificate V in Clothing Manufacture : Sewing and Garment Assembly										<b>NCQF LEVEL</b>	5	
<b>FIELD</b>	Manufacturing, Engineering and Technology				<b>SUB-FIELD</b>	Clothing Manufacture				<b>CREDIT VALUE</b>	128		
New Qualification					√		Review of Existing Qualification						
<b>SUB-FRAMEWORK</b>		General Education					TVET			√		Higher Education	
<b>QUALIFICATION TYPE</b>	Certificate	I		II		III		IV		V	√	Diploma	Bachelor
	Bachelor Honours				Post Graduate Certificate						Post Graduate Diploma		
	Masters							Doctorate/ PhD					
<b>RATIONALE AND PURPOSE OF THE QUALIFICATION</b>													
<p><b><u>RATIONALE:</u></b></p> <p>In 2016, Botswana developed Vision 2036, which is a transformational agenda that defines the aspirations and goals of the Botswana people. Vision 2036 aims at transforming Botswana from an upper-middle-income country to a high-income country by 2036. Vision 2036 has 4 major pillars which speak to the 17 sustainable development goals (SDGs) of the United Nations. The Vision 2016 pillars (Sustainable Economic Development, Human and Social Development, Sustainable Environment and Governance, Peace and Security) are part of the new models of development needed for Botswana to survive in this dynamic world where sustainable development has emerged globally as a new paradigm.</p> <p>The Human Resources Development Council (HRDC) Top Occupations in Demand document of 2016 lists product and garment design with technical skills of design making, garment assembly, fabric layering, embroidery and screen painting, with soft skills in numbers and attention to detail among occupations that have high demand in Botswana. Therefore, this qualification will assist by producing clothing manufacturers, designers and pattern makers.</p> <p>As a nation, Botswana is faced with a high unemployment rate of above 20% among the youths. This high unemployment is due to a mismatch between supply of skills from the education sector and the needs of the job market. The introduction of the Certificate in Sewing and Garment Construction is meant to address the high demand for artisans and technical assistants at national level. The qualification will churn out an internationally competitive workforce that is productive, creative, responsive and has international exposure.</p> <p>The clothing industry in Botswana is currently dominated by ready-to-wear clothing in retail outlets. This has created growth opportunities in this industry, which has in turn led to an increased demand for local graduates</p>													

with qualifications in clothing manufacture. The qualification serves to meet the growing local demand for training and development through the TVET, focusing on sewing and garment assembly. Consequently, there is employment creation for our young local graduates. The qualification has been designed to equip learners with basic knowledge and skills in the clothing manufacture industry.

Further, in the country's diversifying drive, manufacturing has been identified as a major driver of the economy. Competent pattern makers, cutters and clothing technologists are essential for this manufacturing drive to be a success.

**PURPOSE:**

The purpose of this qualification is to equip graduates with knowledge, skills and competencies to perform a wide range of functions such as;

- Demonstrate knowledge and understanding of professional standards and interpersonal skills required in clothing manufacturing industry.
- Prepare appropriate resources for sewing and garment assembly processes.
- Apply advanced sewing techniques to produce a variety of garment pieces (pockets, collars, sleeves, waistbands, etc).
- Assemble garment pieces and create simple and complete complex garments.
- Conduct quality control processes in garment assembly before recommending appropriate packaging methods.

***ENTRY REQUIREMENTS (including access and inclusion)***

An applicant for this qualification must have the following;

- Certificate IV, NCQF Level 4 or equivalent.
- There is provision for entry through RPL.

<b>SECTION B</b>	
<b>QUALIFICATION SPECIFICATION</b>	
<b>GRADUATE PROFILE (LEARNING OUTCOMES)</b>	<b>ASSESSMENT CRITERIA</b>
<b>LO1:-</b> Demonstrate knowledge and understanding of professional standards and interpersonal skills required in the clothing manufacturing industry.	1.1 Demonstrate professional practice standards in the fashion industry (adhering to industry code of ethics and standards, etc). 1.2 Demonstrate knowledge of relevant industry professional standards (in Botswana and abroad) and the importance of membership accreditation. 1.3 Demonstrate mastery of soft skills: - Personal Grooming & Deportment, Time Management, Interviewing, Leadership, Research, Communication, public speaking, etc.
<b>LO2:-</b> Use basic entrepreneurial skills to start-up a small business in clothing production.	2.1 Demonstrate ability to undertake research on possible clothing production business that has potential for growth and sustainability. 2.2 Develop a sustainable fashion design business – identifying the required skills and competencies (the business model) 2.3 Draft a business plan for entrepreneurs in the clothing production business. 2.4 Produce a financial plan for a small start-up business in clothing production. 2.5 Discuss the dynamic business environment, particularly the clothing manufacture industry. 2.6 Recommend appropriate marketing, social networking and sales strategies.
<b>LO 3:-</b> Classify garments using different methods.	3.1 Demonstrate knowledge of common garment classification systems . 3.2 Demonstrate skills in classifying garments using different systems. 3.3 Produce a catalogue of garments.
<b>LO 4:-</b> Master the art of creating and/or fitting various components of garments.	4.1 Construct different sleeve openings. 4.2 Sew darts and front edge fastenings. 4.3 Attach waistbands, insert zip fastenings and make button holes. 4.4 Assemble and sew different types of pockets. 4.5 Distinguish between the various types of sleeve, bodice, skirt and collars.
<b>LO 5:-</b> Prepare appropriate resources for sewing and garment assembly processes.	5.1 Identify and select correct machinery for the different operations of a garment 5.2 Determine sequence of operations and construction methods to be used

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	<p>5.3 Read and interpret specifications from the customer</p> <p>5.4 Adapt and draft patterns to meet the given specifications</p> <p>5.5 Select colours and materials that work in relation to specific designs</p>
<b>LO 6:-</b> Mark, Plan and Cut fabrics.	<p>6.1 Prepare marker against specifications and lay plan.</p> <p>6.2 Cut fabric according to marker ensuring optimum fabric utilization.</p> <p>6.3 Ensure optimum fabric utilisation during cutting</p> <p>6.4 Select and prepare trims for garments</p> <p>6.5 Plan workload and monitoring progress</p>
<b>LO 7:-</b> Apply acquired garment construction skills in sewing complex garment pieces.	<p>7.1 Carry out advanced sewing techniques in the following areas:-Shaping garments, Closures, Seams and seam Finishes.</p> <p>7.2 Demonstrate skills in adding, piping and trimmings.</p> <p>7.3 Add underlining to garments and different types of welt pockets (single/double, welt with flap/zipper).</p> <p>7.4 Assemble and attach cuffs and cuffs.</p> <p>7.5 Demonstrate ability to handle and sew delicate fabrics.</p>
<b>LO 8:-</b> Apply acquired knowledge and skills to construct different garments.	<p>8.1 Demonstrate mastery and practical application of skills and knowledge gained through creativity and workmanship</p> <p>8.2 Research for inspiration and make original designs</p> <p>8.3 Develop patterns and recommend suitable fabric and quantity estimates</p> <p>8.4 Identify economical sources of material and trimmings.</p> <p>8.5 Lay, cut &amp; assemble the outfit</p> <p>8.6 Assemble and attach simple and complex pockets</p> <p>8.7 Sew darts and attach waist bands</p> <p>8.8 Develop systematic quality checks and care labels</p> <p>8.9 Produce complete garments with minimum supervision</p>
<b>LO 9:-</b> Perform quality control processes on complete garments.	<p>9.1 Perform the finishing process ( final inspection, stain removal, repairs, ironing/pressing &amp; folding) on all complete garments</p> <p>9.2 Package complete garments using different packaging methods (hanger packed/ fold packed/ fold &amp; hanger packed)</p> <p>9.3 Interpret quality control documents used in clothing manufacture</p> <p>9.4 Conduct quality audits using correct sample sizes and specifications</p>
<b>LO10:-</b> Demonstrate understanding of the impact of fabric printing and dyeing in clothing.	<p>10.1 Demonstrate knowledge of different printing and dyeing technologies</p> <p>10.2 Demonstrate understanding of effects of dyes and chemicals on health and the environment</p> <p>10.3 Demonstrate knowledge of equipment used for printing</p>

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	<p>and dyeing</p> <p>10.4 Illustrate creativity in fabric printing and dyeing</p>
<p><b>LO11:-</b> Demonstrate understanding in embroidery and screen painting in clothing manufacture</p>	<p>11.1 Identify equipment used in embroidery and screen printing</p> <p>11.2 Demonstrate knowledge in embroidery and screen printing</p> <p>11.3 Engage in discussions of future trends in embroidery and screen printing with reference to clothing manufacturing</p> <p>11.4 Show knowledge in screen making, colour mixing principles and modern screen-printing technology</p> <p>11.5 Illustrate embroidery and screen-printing techniques</p>

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<b>SECTION C</b>		<b>QUALIFICATION STRUCTURE</b>			
<b>GENERIC COMPONENT</b> <i>Subjects/ Courses/ Modules/Units</i>	<b>TITLE</b>	<b>Credits Per Relevant NCQF Level</b>			<b>Total (Per Subject/ Course/ Module/ Units)</b>
		<b>Level [ 3]</b>	<b>Level [ 4]</b>	<b>Level [5]</b>	
	Professional Practice			✓	6
	Entrepreneurial Skills			✓	8
<b>CORE COMPONENT</b> <i>Subjects/Courses / Modules/Units</i>	Garment Classification			✓	4
	Defects Classification, Handling and Management			✓	4
	Garment Assembly Resources			✓	6
	Creation and Fitting of Garment pieces			✓	8
	Finishing, Packaging and Quality Control			✓	8
	Marking, Laying and Cutting			✓	20
	Advanced Sewing Techniques			✓	30
	Project - Garment Construction			✓	30
<b>ELECTIVE/ OPTIONAL COMPONENT</b> <i>Subjects/Courses / Modules/Units</i>	Fabric Printing &Dyeing			✓	4
	Embroidery & Screen Printing			✓	4

<b>SUMMARY OF CREDIT DISTRIBUTION FOR EACH COMPONENT PER NCQF LEVEL</b>	
<b>TOTAL CREDITS PER NCQF LEVEL</b>	
<b>NCQF Level</b>	<b>Credit Value</b>
<b>Generic Units</b>	<b>14</b>
<b>Core Units</b>	<b>110</b>
<b>Elective Units</b>	<b>4</b>
<b>TOTAL CREDITS</b>	<b>128</b>
<b>Rules of Combination:</b> <b>(Please Indicate combinations for the different constituent components of the qualification)</b>	
<p>Candidates are required to achieve a minimum of 128 credits for the qualification inclusive of 14 credits from generic units, 110 credits from core units and 4 credits from elective units. There are two electives, and learners are required to choose only one between the two.</p>	

### **ASSESSMENT ARRANGEMENTS**

**a. Formative Assessment**

Formative assessment or continuous assessment contributing towards the award of credits shall be based on course outcome. This consists of tests, assignments and projects. The contribution of formative assessment to the final grade shall be **70%**.

**b. Summative**

Candidates shall undergo assessment including written and practical and simulated projects. The final examination contributes **30%** of the final mark of the course.

### **MODERATION ARRANGEMENTS**

There will be pre, during and post moderation arrangements. All arrangements will be carried out by assessors and moderators registered and accredited by the BQA.

Both internal and external moderation will be done in accordance with relevant institutional policies and guidelines which are compliant with BQA Standards.

### **RECOGNITION OF PRIOR LEARNING (if applicable)**

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 Institute RPL policies and relevant national-level policy and legislative framework.

### **PROGRESSION PATHWAYS (LEARNING AND EMPLOYMENT)**

#### **Learning**

**a) Horizontal Articulation**

Certificate V in Clothing Manufacture (Fashion)

Certificate V in Clothing Manufacture (Design and Pattern Making)

**b) Vertical Articulation**

Diploma VI in Clothing Manufacture ( Sewing)

Diploma VI in Clothing Manufacture (Garment Construction Technology / Garment Assembly)

#### **Employment**

After attaining this qualification, learners may work as:



- Tailor
- Seamstress
- Sample Pattern Markers
- Cutters
- Showroom/Workshop Assistant
- Run own small business
- Garment Technologist
- Fashion Merchandiser

### **QUALIFICATION AWARD AND CERTIFICATION**

#### **Minimum Standards of achievement for the award of the Certificate V in Sewing and Garment Assembly**

A learner is required to achieve the stipulated total of 128 credits inclusive of the generic, core and elective components, to be awarded the *Certificate in Clothing Manufacture Level V: Sewing and Garment Assembly*

#### **Certification**

Upon successful completion of the qualification, learners shall be awarded the *Certificate in Clothing Manufacture Level V: Sewing and Garment Assembly* in accordance with standards prescribed for the award of the qualification and applicable policies.

Upon successful completion of the qualification, the learner will be issued a certificate.

### **REGIONAL AND INTERNATIONAL COMPARABILITY**

	<b>QUALIFICATIONS</b>		
	<b>India:- Certificate in Cutting and Sewing (Level 3)</b>	<b>South Africa: - SAQA Certificate in Fashion Design (Level 5)</b>	<b>Botswana:-BQA Certificate in Sewing &amp; Garment Assembly (L5)</b>
<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Able to identify, select and make hand stitches in given fabric</li> <li>• Draft paper pattern</li> <li>• Take appropriate</li> </ul>	<ul style="list-style-type: none"> <li>• Demonstrate an understanding principles, theories and rules in fashion design</li> <li>• Draft basic pattern sets and apply basic principles of adaptation and manipulation</li> <li>• Perform sewing skills across a range of themes</li> <li>• Interpret fashion planning document</li> </ul>	<ul style="list-style-type: none"> <li>• Prepare appropriate resources for sewing and garment assembly</li> <li>• Mark, lay and cut fabric</li> <li>• Apply advanced sewing skills to create garment</li> </ul>

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	<p>te body measurement and record dimensions</p> <ul style="list-style-type: none"> <li>Produce a variety of garment pieces (pocket, collar, sleeve)</li> <li>Assemble &amp; sew complete garments</li> </ul>		<p>pieces</p> <ul style="list-style-type: none"> <li>Assemble garment pieces to create complete garments</li> </ul>
<b>Modules</b>	<p>Professional Practice &amp; House Keeping, Safety Workplace Practices, Assemble &amp; Sewing Garment Pieces, Pattern Drafting, Body measurement &amp; Recording, assemble complete Garments, Cutting &amp; Sewing complete Garments</p>	<p>Introduction to Clothing Design, Introduction to Pattern Making, Fashion Drawing, Sewing Techniques, Pattern Development, Fashion Buying, Garment Construction, CAD in Fashion, Textiles, Professional Practice, Fashion Planning</p>	<p>Professional Practice, Entrepreneurship, Advanced Sewing Techniques, Construction of Complex Garments, Garment Classification, Quality Control in Garment Making</p>
<b>Credits and Duration</b>	<p>208 credits, inclusive of generic, core and electives to be completed in one year</p>	<p>120 credits, inclusive of generic, core and electives to be completed in one year.</p>	<p>132 credits, inclusive of generic, core and electives to be completed in one year</p>

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<b>Qualification Link</b>	See attachment uploaded on 22-07-2020 titled India Cutting and Sewing NSQF-3	<a href="http://allqs.sqa.org.za/showQualification.php?id=94796">http://allqs.sqa.org.za/showQualification.php?id=94796</a>	
<p>The qualifications noted above are generally comparable in terms of main exit outcomes, qualification structure, education and employment pathways. The difference observed is that the IQA has a higher credit weighting. This is explained by the higher content scope, especially in the practical component of sewing complete garments. The SAQA compares very well in almost all areas, including credit weighting and duration.</p> <p>Employment pathways are similar as graduates can either be self-employed or work in clothing manufacturing industry</p>			
<b>REVIEW PERIOD</b>			
<p>The Certificate in Clothing Manufacture Level V: Sewing and Garment Assembly shall be reviewed every 5 years.</p>			