

No. 128

11 February 2009

**SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)**

In accordance with Regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Standards Generating Body (SGB) for

Clothing, Textiles, Footwear and Leather

registered by Organising Field 06 – Manufacturing, Engineering and Technology, publishes the following Qualification and Unit Standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the Qualification and Unit Standards. The full Qualification and Unit Standards can be accessed via the SAQA web-site at www.saqqa.org.za. Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the Qualification and Unit Standards should reach SAQA at the address below and **no later than 11 March 2009**. All correspondence should be marked **Standards Setting – SGB for Clothing, Textiles, Footwear and Leather** and addressed to

The Director: Standards Setting and Development
SAQA

Attention: Mr. E. Brown

Postnet Suite 248

Private Bag X06

Waterkloof

0145

or faxed to 012 – 431-5144

e-mail: ebrown@saqa.org.za


D. MPHUTHING**ACTING DIRECTOR: STANDARDS SETTING AND DEVELOPMENT**



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

QUALIFICATION:**National Certificate: Sewing Machine Mechanics**

SAQA QUAL ID	QUALIFICATION TITLE		
65651	National Certificate: Sewing Machine Mechanics		
ORIGINATOR		PROVIDER	
SGB Clothing, Textiles, Footwear and Leather			
QUALIFICATION TYPE	FIELD	SUBFIELD	
National Certificate	6 - Manufacturing, Engineering and Technology	Manufacturing and Assembly	
ABET BAND	MINIMUM CREDITS	NQF LEVEL	QUAL CLASS
Undefined	122	Level 3	Regular-Unit Stds Based

This qualification replaces:

Qual ID	Qualification Title	NQF Level	Min Credits	Replacement Status
48973	National Certificate: Clothing, Textiles, Footwear and Leather (CTFL) Mechanician Processes	Level 3	130	Will occur as soon as 65651 is registered

PURPOSE AND RATIONALE OF THE QUALIFICATION**Purpose:**

The qualification is applicable to people across the CTFL sector as the fundamental, core and elective components deal with knowledge, skills, values and attitudes required by all sewing machine mechanics in the sector. Learners will deal with specific sewing machine maintenance and repair processes through the chosen elective area.

The purpose of the qualification is to build the sewing machine mechanician competence at NQF Level 3 to be able to:

- > Describe and identify raw materials, lubricants and chemicals commonly used in the CTFL industry.
- > Describe sewing machine mechanician requirements for the various production sectors, end users and role players in the CTFL sector.
- > Use and maintain a range of hand or power tools applicable for sewing machines.
- > Comply with quality and waste reduction practices.
- > Demonstrate understanding of mechanical, pneumatic, electrical and electronic concepts.
- > Demonstrate understanding of the importance of relationships and ensuring sound communications when interacting with various forums.
- > Perform calculations relevant to different processes in a CTFL sewing environment.
- > Maintain a range of sewing machinery.

This qualification will allow a learner to obtain a nationally recognised qualification in sewing machine mechanician processes at NQF Level 3. It will set a standard for proficiency and assist in reducing high costs related to unnecessary machine and equipment maintenance and breakdown. It will also assist with attracting and retaining quality learners. This qualification will also provide for the recognition of prior learning by allowing learners to obtain credits for

knowledge and skills that they already possess and so obtain the qualification in whole or in part through such recognition.

The qualification supports the objectives of the National Qualifications Framework in the following ways:

- > It provides an entry level learning opportunity at level 3 which will lead to qualifications for sewing machine mechanician at NQF Level 4. It also meets the NQF principle of portability in that 24 credits are carried over to the manufacturing processes qualifications in clothing, textiles, footwear and leather. Furthermore, it gives the opportunity for learners to obtain official recognition for knowledge and skills, that they possess in sewing machine mechanician processes through the awarding of an officially recognised qualification.
- > The provision that the qualification may be obtained through recognition of prior learning facilitates access to an education, training and career path in sewing machine mechanician processes, and thus accelerates the redress of past unfair discrimination in education, training and employment opportunities.
- > The inclusion of the specified unit standards in the fundamental and core categories contributes to the full personal development of each learner and the social and economic development of the nation at large.

Rationale:

The National Certificate in Sewing Machine Mechanician Processes at NQF Level 3 is designed to meet the needs of learners who are involved in sewing machine repair and maintenance processes or who enter the CTFL sector. This qualification reflects the workplace-based needs across the sector. The current and future need for competent sewing machine mechanicians has been expressed by employers and employees, and is captured in this qualification. This qualification provides the learner with accessibility to be employed in manufacturing support processes and provides the flexibility in that learners accessing this qualification may progress into qualifications in Clothing, Textiles, Footwear and Leather manufacturing processes. To that end 24 credits in this qualification are portable across to the manufacturing process qualification. This National Certificate is structured in such a way that it gives learners exposure to a broad set of core competencies while the electives may be chosen from a range of different sewing machine types and allied processes.

RECOGNIZE PREVIOUS LEARNING?

Y

LEARNING ASSUMED IN PLACE

It is assumed that the learner is already competent in:

- > Communication at NQF Level 2.
- > Mathematical Literacy at NQF Level 2.

Recognition of Prior Learning:

This qualification may be achieved in part or in whole through the recognition of prior learning, which includes formal, informal and non-formal learning and work experience.

Access to the Qualification:

This Qualification is open for everyone who are in possession of:

- > A minimum of Grade 10 or Engineering related National Certificate: Vocational, NQF Level 2.

- > Have completed the National Certificate: Clothing, Textiles, Footwear and Leather Manufacturing Processes at NQF Level 2 or equivalent, specialising in SEWING processes.
- > A minimum of one (1) year's working experience in an industrial manufacturing environment, with a work focus on either electrical, mechanical or sewing processes.

QUALIFICATION RULES

This National Certificate in Sewing Machine Mechanics at NQF Level 3 comprises of unit standards, which are fundamental, core and elective. The qualification will have a minimum of 122 credits of which 36 credits are fundamental, 52 credits are core and 34 credits are in the elective component.

In this qualification the credits total a minimum of 122 credits and are allocated as follows:

- > Fundamental; 36 credits; 30%.
- > Core; 52 Credits; 42%.
- > Elective; 34 credits; 28%.

Credits for the fundamental component:

All of these unit standards are compulsory.

Credits for the core component:

The unit standards classified as Core describe the generic sewing machine mechanician competence applicable to the CTFL sector and are all compulsory.

Credits for the elective component:

Learners are required to select a minimum of 34 credits, ensuring that a minimum of 2 different machine types are selected.

Note:

In order to progress to the NQF Level 4 Lockstitch and/or Chainstitch elective unit standard/s, the learner must have demonstrated competence at NQF Level 3 on the Lockstitch and/or Chainstitch elective unit standard/s.

EXIT LEVEL OUTCOMES

1. Describe and identify raw materials, lubricants and chemicals commonly used in the CTFL industry.
2. Describe sewing machine mechanician requirements for the various production sectors, end users and role players in the CTFL sector.
3. Use and maintain a range of hand or power tools applicable for sewing machines.
4. Comply with quality and waste reduction practices.
5. Demonstrate understanding of mechanical, pneumatic, electrical and electronic concepts.
6. Demonstrate understanding of the importance of relationships and ensuring sound communications when interacting with various forums.
7. Perform calculations relevant to different processes in a CTFL sewing environment.

8. Maintain a range of sewing machinery.

ASSOCIATED ASSESSMENT CRITERIA

Associated Assessment Criteria for Exit Level Outcomes 1:

- 1.1 Raw materials, lubricants and chemicals are identified by common use requirements.
- 1.2 Alternative products that could be used to perform the same task are identified and contrasted in terms of their strengths and weaknesses.
- 1.3 Reasons for selecting specific products are explained in relation to the short and long term impact on the equipment.
- 1.4 Practices are described that will minimise waste of consumables and ensure durability of equipment.

Associated Assessment Criteria for Exit Level Outcomes 2:

- 2.1 End users and roleplayers in the CTFL sector are identified and described in terms of the functions they perform and their specific requirements.
- 2.2 Functions that can be performed by various level mechanics are identified and classified according to relevant skills levels.
- 2.3 Methods of achieving required outcomes are described to relevant personnel in accordance with industry accepted terminology.
- 2.4 New or innovative methods for achieving required results are identified and researched in terms of strengths and weaknesses for a given application.
- 2.5 Required changes within the sector are identified as technology changes are implemented that will ensure end user requirements are not compromised.

Associated Assessment Criteria for Exit Level Outcomes 3:

- 3.1 Tools required for a specific job are selected from a range of available tools.
- 3.2 Tools are confirmed to be in correct working order prior to use.
- 3.3 Broken or damaged tools are identified and corrective action is taken in accordance with organisational procedures.
- 3.4 Alternative tools that can be used to perform the same task are identified and contrasted in terms of strengths and weaknesses.
- 3.5 Specific legislation is defined in terms of the impact on a given work task.

Associated Assessment Criteria for Exit Level Outcomes 4:

- 4.1 Material usage is optimised for a given project.
- 4.2 Waste is within acceptable industry standards.
- 4.3 Work is conducted in accordance with acceptable SHE and workplace requirements.
- 4.4 Work is conducted in accordance with acceptable timeframes.
- 4.5 Quality of the workmanship is in accordance with industry acceptable standards.

Associated Assessment Criteria for Exit Level Outcomes 5:

- 5.1 The mechanical process of sewing is described using industry accepted terminology and the level is appropriate to the target audience.
- 5.2 The method of supplying power to the mechanical process is described for electrical and pneumatic processes.
- 5.3 The use of electronics to control the type of results achieved is described in terms of the principles of electronics.
- 5.4 Safety precautions when working with electricity are identified and described in accordance with standard operating practices.
- 5.5 Safety precautions when working with pneumatics are identified and described in accordance with standard operating practices.

5.6 Electronic settings are selected to achieve the required output for a given project.

Associated Assessment Criteria for Exit Level Outcomes 6:

- 6.1 End users and roleplayers in the CTFL sector are identified and described in terms of the information they require to be able to function as a coherent process.
- 6.2 Communication with workplace colleagues is appropriate and facilitates good working relationships.
- 6.3 Relevant information that should be communicated is identified in terms of the content and recipients.
- 6.4 Information is communicated in accordance with workplace timeframes and procedures.

Associated Assessment Criteria for Exit Level Outcomes 7:

- 7.1 Raw materials, lubricants and chemicals required for a given project or work task are calculated to within acceptable tolerances in accordance with industry accepted methods.
- 7.2 Shapes and dimensions of required materials are optimised for a given quantity of raw material.
- 7.3 The importance of manipulating shapes and dimensions is explained in terms of minimising wastage.
- 7.4 Wastage is ensured to be in accordance with industry acceptable wastage.

Associated Assessment Criteria for Exit Level Outcomes 8:

- 8.1 Routine maintenance requirements are identified from manufacturer specifications and workplace requirements.
- 8.2 Maintenance is conducted in accordance with work schedules.
- 8.3 Tools are used in accordance with their design.
- 8.4 Faults are identified and corrected in accordance with manufacturer specifications.
- 8.5 The importance of regular maintenance is explained in terms of prevention of breakdowns and maintaining production targets.

INTERNATIONAL COMPARABILITY

This qualification was benchmarked against sewing machine mechanician and/or equivalent qualifications in other countries, and was found to be comparable with other qualifications at this level, in terms of the outcomes and assessment criteria.

New Zealand:

- > Bruce Tollemache (Auckland):
- > Training Advisor.
- > Apparel, Footwear Sectors.
- > bruce@atito.org.nz.

Bruce Tollemache the training advisor for the apparel and footwear sectors of The Apparel and Textile Industry Training Organisation provided useful input in terms of the New Zealand qualifications for clothing and textile personnel.

The qualifications are divided for clothing, footwear, industrial textiles, leather and machine knitting. The qualification identified to be the closest match to this qualification was the National Certificate in Clothing Manufacture (Elementary Sewing Skills) (Level 2), with the following broad outcomes:

- > Thread and operate an industrial lockstitch sewing machine in a learning environment.
- > Thread and operate an industrial overlock sewing machine in a learning environment.
- > Demonstrate knowledge of workplace practice in the apparel or textile industry.
- > Demonstrate knowledge of safe working practices in the apparel or textile industry.

Scottish Qualifications Authority:

There are currently no qualifications provided by the SQA related to Sewing Machine Mechanics. The closest they come is a National Certificate in Home Economics, which incorporates the use of a sewing machine for sewing textiles. Various training units were identified that could be applicable to this qualification, as follows:

- > Garment Machine Sewing Skills: Children's Wear.
- > Garment Machine Sewing Skills: Gents' Light Clothing (Shirts).
- > Garment Machine Sewing Skills: Ladies' Light Clothing (Bodices).
- > Garment Machine Sewing Skills: Skirts.
- > Garment Machine Sewing Skills: Trousers.
- > Introductory Sewing Machine Skills.
- > Machine and Hand Sewing for Soft Furnishing.
- > Maintenance and Fabrication of Sewing Machine Attachments and Work Aids.
- > Maintenance of Automatic Chainstitch Sewing Machines: Button Sewing/Tacking.
- > Maintenance of Automatic Short Cycle Chainstitch Sewing Machines: Buttonholing.
- > Maintenance of Automatic Short Cycle Lockstitch Sewing Machines: Bartacking/Button Sewing.
- > Maintenance of Automatic Short Cycle Lockstitch Sewing Machines: Buttonholing.
- > Trim and Upholstery Sewing.

African Qualifications.

An extensive search for similar qualifications for clothing machine mechanics on the African continent proved to be fruitless. Countries looked at were:

- > Malawi.
- > Zimbabwe (The Registrar of Apprenticeship & Skilled Manpower).
- > Botswana (The Principal-Selebi Pikwe Technical College).
- > Namibia.

All parties corresponded with indicated that sewing machine manufacturers provide specific training in using and maintaining the machine, but no qualification is required.

Indian Qualifications:

The Apparel Training and Design Centre in India provides a 4 month qualification for a sewing machine mechanic. They were registered as a Society under Societies Registration Act on February 15, 1991 at New Delhi with the mission to upgrade the technical skills of the human resource employed in Garment Industry. The Society is Sponsored by Apparel Export Promotion Council, Ministry of Textiles, Government of India. The Chairman of Apparel Export Promotion Council (AEPC) is also the Chairman of Apparel Training & Design Centre (ATDC). The Society in turn has opened a number of training centres, with the same name. Presently Society has more than 39 Centres, also called Apparel Training & Design Centres (ATDCs). Keeping in view the growing demands of the apparel industry several ATDCs have been set up at different parts of the country where the garment industry is concentrated.

Currently there are 39 ATDC centres functioning at Delhi, Noida, Gurgaon, Faridabad, Jaipur, Ludhiana, Kanpur, Bangalore, Hyderabad, Chennai, Trivandrum, Tirupur, Mumbai, Kolkata, Silvassa, Indore, Surat, Tronica City-Ghaziabad, Bhubaneswar, Ranchi including 16 Sewing Machine Operation (SMO)-Satellite centres at Domjur, Santoshpur, Jalpaiguri (West Bengal), Pamidi, Rayadurg, Gundlapochampally (Andhra Pradesh), Mewat (Haryana), Dharmapuri, Parambalur (Tamil Nadu), Kolar, Tumkur, Ram Nagar, Chikkaballur, Bellary, Hubli (Karnataka) & Chhindwara (Madhya Pradesh). In continuation of its commitments for the development of skilled

human resources ATDC is spreading its wings with the opening of a few more centres at various locations.

Indonesia:

The skills of a qualified sewing machine are recognised as a "Skilled Worker" category, but there is no indication that any particular qualification must be achieved.

United States of America:

The position of a sewing machine mechanic does not have a qualification standard attached; therefore requirements must be developed locally. These will be included in a vacancy announcement or job posting to indicate the requirements which all applicants or bidders must meet.

Sri Lanka:

The Ministry of Vocational and Technical training in Sri Lanka have identified the following skills for a sewing machine mechanic:

- > Attend to preventive maintenance and running repairs of sewing machines and attachments in the factory floor.
- > Attend to major repairs in a workshop or appropriate place.
- > Co-ordinate with relevant persons/sections.

Fiji:

The Apprenticeship Scheme in Fiji is administered by the National Apprenticeship Training Department (NATD) of the Training & Productivity Authority of Fiji (TPAF). The position of a sewing machine mechanic has been identified as an apprenticeship and a course has been put together to meet these specific needs. The Fiji Institute of Technology provides the apprentices with the necessary theoretical training however, the National Apprenticeship Training Department is responsible for:

- > Organizing all registered apprentices to attend classes and placing them in their respective courses on term basis (Blocks) at the Fiji Institute of Technology.
- > Informing apprentices through their respective employers of the exam results and of any resit/repeats requirements.
- > Monitoring attendance and progress through each stage and providing counseling where necessary.

The National Apprenticeship Training Department is responsible for ensuring the quality and standard of practical training to apprentices in accordance with the prescribed on-the-job training guides. Inspections and consultations are therefore carried out at least 3 times a year on all apprentices in the country.

The apprentices are inspected on the job site to ascertain the type of job situation they are working in and how effectively the different aspects of their training guide is covered. Detailed discussions with relevant personnel are held to ascertain an apprentice's progress at work. A report with appropriate recommendation is then made available to the apprentice, employer and a copy kept at the TPAF for records.

With the National Qualifications Framework (NQF) being developed by TPAF it has been necessary to introduce the Competency Based Training (CBT) format for the Apprenticeship Scheme. This new training concept is based more on the individual's ability and competence to achieve the desired results and output which allows for accreditation and certification at a given

qualification level in the NQF; from Level 1 Basic to Level 4 Trade Certificate. The NQF will also help identify individual skills gap, when compared to the different qualification levels in the Framework.

The CBT format is such that training is not time-based, as currently stipulated for 4-5 years in the current Apprenticeship Scheme, but conducted at a pace suitable to the individual's capacity for learning and training until achievement of the qualification. The required practical training for each trade is more specific as to the tasks allocated, repetition of tasks completed, hours spent on the job and the assessment of performance and competence shown. Theoretical and technical training will be conducted according to the individual skills gap that has been identified. For employers, the CBT levels of qualification will provide a more accurate assessment of abilities to do work.

Conclusion:

There is a definite need in various countries for the skills required of a sewing machine mechanic, but these skills are generally provided by manufacturers in the form of a short course rather than a full qualification. Where qualifications have been identified, they are generally at full apprentice level and include various aspects of mechanical operations not included for sewing machines only.

ARTICULATION OPTIONS

This qualification has been designed and structured as part of a progressive route in the manufacturing and sewing processes industry so that qualifying learners can move from one level to the next.

The use of generic unit standards in this qualification opens new avenues for the learner to progress from one qualification to another in related fields of study beyond sewing machine mechanic. Employers or institutions should be able to evaluate the outcomes of this qualification against the needs of their context and structure top-up learning appropriately.

This qualification builds on the National certificate in CTFL Manufacturing Processes at NQF Level 2 and leads to the National certificate in Sewing Machine Mechanics Processes at NQF Level 4. Learners may also decide to further their career in one of the following fields:

- > Electrical engineering.
- > Mechanical engineering.
- > Technical sales.
- > Clothing Manufacturing Technology.
- > Footwear Technology.
- > Clothing, Textiles, Footwear and Leather Manufacturing Processes.

Learners who have achieved this qualification have achieved generic skills that would enable them to follow a career in electrical or mechanical engineering. This qualification allows for both vertical and horizontal articulation. This qualification articulates with the following qualifications:

Horizontal articulation exists with:

- > National Certificate: Clothing Machine Mechanics, NQF Level 3.

Vertical articulation exists with:

- > National Certificate: Sewing Machine Mechanics Processes, NQF Level 4.
- > ID 21871: National Certificate: Clothing Manufacturing Technology, NQF Level 4.
- > ID 58270: Further Education and Training Certificate: Electro-Mechanics, NQF Level 4.
- > ID 48474: Further Education and Training Certificate: Electrical Engineering, NQF Level 4.

> ID 21872: National Diploma: Clothing manufacturing technology, NQF Level 5.

MODERATION OPTIONS

> Assessors must be registered as an assessor with the relevant ETQA.

> Moderators must be registered as assessors with the relevant ETQA, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.

> The mechanisms and requirements for moderation should be applied in accordance with the requirements of the relevant ETQA.

> Anyone wishing to be assessed against this Qualification may apply to be assessed by any assessment agency, assessor or provider institution that is accredited by the relevant ETQA.

CRITERIA FOR THE REGISTRATION OF ASSESSORS

> Assessors need experience in the following areas:

> Interpersonal skills.

> Subject matter.

> Assessment.

> The assessor needs to be competent in the planning and conducting of assessment of learning outcomes as described in the unit standards.

> Plan and conduct assessment of learning outcomes NQF Level 4.

> Subject matter experience must be well developed within the different elected areas of the CTFL sewing sector.

> The assessor must have completed:

> A similar qualification at the level with a minimum of 6-12 months field experience after he/she has completed the qualification.

> The subject matter experience of the assessor can be established by recognition of prior learning.

> Assessors need to be registered with the relevant Education and Training Quality Assurance Body.

NOTES

This qualification replaces qualification 48973, "National Certificate: Clothing, Textiles, Footwear and Leather (CTFL) Mechanician Processes", Level 3, 120 credits.

UNIT STANDARDS

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Fundamental	119472	Accommodate audience and context needs in oral/signed communication	Level 3	5
Fundamental	9010	Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations	Level 3	2
Fundamental	9013	Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts	Level 3	4
Fundamental	119457	Interpret and use information from texts	Level 3	5
Fundamental	9012	Investigate life and work related problems using data and probabilities	Level 3	5
Fundamental	119467	Use language and communication in occupational learning programmes	Level 3	5
Fundamental	7456	Use mathematics to investigate and monitor the financial aspects of personal, business and national issues	Level 3	5
Fundamental	119465	Write/present/sign texts for a range of communicative contexts	Level 3	5
Core	114605	Carry out soldering and de-soldering procedures	Level 2	3
Core	246471	Demonstrate knowledge and understanding of plant equipment	Level 2	6
Core	115230	Demonstrate knowledge of electrical and electronic components	Level 2	3

	ID	UNIT STANDARD TITLE	LEVEL	CREDITS
Core	7427	Use and maintain hand tools and equipment	Level 2	3
Core	116455	Apply safety, housekeeping, environment practices and legal requirements when working on machines and equipment	Level 3	3
Core	116452	Comply with waste reduction practices	Level 3	3
Core	116449	Describe and identify raw materials used including lubricants and chemicals	Level 3	3
Core	116442	Describe and relate to production sectors, end uses and competitors to the CTFL industry	Level 3	4
Core	123468	Explain and apply quality control procedures	Level 3	6
Core	13139	Install, test and maintain a basic pneumatic system	Level 3	10
Core	116446	Maintain positive employer / employee practices	Level 3	3
Core	117171	Manage time effectively to enhance productivity and enable a balanced lifestyle	Level 3	2
Core	14962	Select, set out and maintain materials, tools and equipment	Level 3	5
Elective	262518	Demonstrate an understanding of the fundamentals of industrial sewing equipment	Level 3	8
Elective	262527	Install Sewing Machine Attachments, Guides and Folders	Level 3	4
Elective	262524	Maintain and repair Chainstitch sewing machines	Level 3	12
Elective	262523	Maintain and repair Overlock Sewing Machines	Level 3	12
Elective	262521	Repair and Maintain Lockstitch Machines	Level 3	12
Elective	262529	Repair and Maintain fabric cutting equipment	Level 3	6

LEARNING PROGRAMMES RECORDED AGAINST THIS QUALIFICATION

None



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Demonstrate an understanding of the fundamentals of industrial sewing equipment

SAQA US ID		UNIT STANDARD TITLE	
262518		Demonstrate an understanding of the fundamentals of industrial sewing equipment	
ORIGINATOR		PROVIDER	
SGB Clothing, Textiles, Footwear and Leather			
FIELD		SUBFIELD	
6 - Manufacturing, Engineering and Technology		Manufacturing and Assembly	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	8

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Clean and lubricate industrial sewing machines.

SPECIFIC OUTCOME 2

Analyse sewing faults and make corrective adjustments on industrial sewing machines.

SPECIFIC OUTCOME 3

Set up industrial sewing machines to meet product specifications.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	65651	National Certificate: Clothing, Textiles, Footwear and Leather (CTFL) Sewing Machine Mechanics	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Repair and Maintain Lockstitch Machines

SAQA US ID		UNIT STANDARD TITLE	
262521		Repair and Maintain Lockstitch Machines	
ORIGINATOR		PROVIDER	
SGB Clothing, Textiles, Footwear and Leather			
FIELD		SUBFIELD	
6 - Manufacturing, Engineering and Technology		Manufacturing and Assembly	
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	12

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Service the main stitch forming components of lockstitch sewing machines.

SPECIFIC OUTCOME 2

Diagnose and rectify faults in lockstitch sewing machines.

SPECIFIC OUTCOME 3

Perform service procedures on lockstitch sewing machines.

SPECIFIC OUTCOME 4

Compare the technical specifications of lockstitch sewing machines.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	65651	National Certificate: Clothing, Textiles, Footwear and Leather (CTFL) Sewing Machine Mechanics	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Maintain and repair Overlock Sewing Machines

SAQA US ID	UNIT STANDARD TITLE		
262523	Maintain and repair Overlock Sewing Machines		
ORIGINATOR	PROVIDER		
SGB Clothing, Textiles, Footwear and Leather			
FIELD	SUBFIELD		
6 - Manufacturing, Engineering and Technology	Manufacturing and Assembly		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	12

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Describe the method of operation and practical application of overlock sewing machines.

SPECIFIC OUTCOME 2

Diagnose and rectify faults in overlock sewing machines.

SPECIFIC OUTCOME 3

Service the main stitching components of overlock sewing machines.

SPECIFIC OUTCOME 4

Carry out service procedures on overlock machines.

SPECIFIC OUTCOME 5

Machines are compared for suitability for company products and requirements.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	65651	National Certificate: Clothing, Textiles, Footwear and Leather (CTFL) Sewing Machine Mechanics	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Maintain and repair Chainstitch sewing machines

SAQA US ID	UNIT STANDARD TITLE		
262524	Maintain and repair Chainstitch sewing machines		
ORIGINATOR	PROVIDER		
SGB Clothing, Textiles, Footwear and Leather			
FIELD	SUBFIELD		
6 - Manufacturing, Engineering and Technology	Manufacturing and Assembly		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	12

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Describe the method of operation and practical application of chainstitch sewing machines.

SPECIFIC OUTCOME 2

Diagnose and rectify faults in chainstitch sewing machines.

SPECIFIC OUTCOME 3

Service the main stitching components of chainstitch sewing machines.

SPECIFIC OUTCOME 4

Carry out service procedures on chainstitch machines.

SPECIFIC OUTCOME 5

Machines are compared for suitability for company products and requirements.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	65651	National Certificate: Clothing, Textiles, Footwear and Leather (CTFL) Sewing Machine Mechanics	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Install Sewing Machine Attachments, Guides and Folders

SAQA US ID	UNIT STANDARD TITLE		
262527	Install Sewing Machine Attachments, Guides and Folders		
ORIGINATOR	PROVIDER		
SGB Clothing, Textiles, Footwear and Leather			
FIELD	SUBFIELD		
6 - Manufacturing, Engineering and Technology	Manufacturing and Assembly		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	4

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Demonstrate knowledge of fitting procedures.

SPECIFIC OUTCOME 2

Carry out adjustments.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	65651	National Certificate: Clothing, Textiles, Footwear and Leather (CTFL) Sewing Machine Mechanics	Level 3



SOUTH AFRICAN QUALIFICATIONS AUTHORITY

UNIT STANDARD:

Repair and Maintain fabric cutting equipment

SAQA US ID	UNIT STANDARD TITLE		
262529	Repair and Maintain fabric cutting equipment		
ORIGINATOR	PROVIDER		
SGB Clothing, Textiles, Footwear and Leather			
FIELD	SUBFIELD		
6 - Manufacturing, Engineering and Technology	Manufacturing and Assembly		
ABET BAND	UNIT STANDARD TYPE	NQF LEVEL	CREDITS
Undefined	Regular	Level 3	6

This unit standard does not replace any other unit standard and is not replaced by another unit standard.

SPECIFIC OUTCOME 1

Describe the method of operation and practical application of fabric cutting machines.

SPECIFIC OUTCOME 2

Carry out service procedures on fabric cutting equipment.

SPECIFIC OUTCOME 3

Service fabric cutting machines.

QUALIFICATIONS UTILISING THIS UNIT STANDARD

	ID	QUALIFICATION TITLE	LEVEL
Elective	65651	National Certificate: Clothing, Textiles, Footwear and Leather (CTFL) Sewing Machine Mechanics	Level 3