

STANDARD KEMAHIRAN PEKERJAAN KEBANGSAAN (NATIONAL OCCUPATIONAL SKILLS STANDARD)

STANDARD PRACTICE, STANDARD CONTENT & CURRICULUM of COMPETENCY UNIT FOR

SEWING OPERATION LEVEL 2 TA-020-2:2014





MALAYSIAN TEXTILE AND APPAREL CENTRE

KEMENTERIAN SUMBER MANUSIA

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Department of Skills Development (DSD)

Ministry of Human Resources

62530 PUTRAJAYA, MALAYSIA

NATIONAL OCCUPATIONAL SKILLS STANDARD (NOSS) DEVELOPMENT GUIDELINE

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GLOSSARY

Apparel	Apparel defines clothing and garments, which are textile materials worn on the body
Armhole	Opening in the bodice to which the sleeve is attached to
Dart	Common technique used for shaping garments. Darts are created by stitching out a wedge-shaped fold of fabric
Embroidery	Variety of decorative needlework in which designs and pictures are created by stitching strands of some material on to a layer of another material
Eyelet	And eyelets are metal, plastic, or rubber rings that are inserted into a hole made through another material. They may be used to reinforce the hole, to shield something from the sharp edges of the hole, or both
Facing	A facing is fabric used to finish the raw edges of a garment such as at neckline and armhole
Gather	A technique for shortening the length of a strip of fabric so that the longer piece can be attached to a shorter piece
Hem	A piece of cloth (in sewing), a garment worker folds up a cut edge, folds it up again, and then sews it down. The process of hemming thus completely encloses the cut edge in cloth, so that it cannot ravel
Interfacing/ interlining	A common term for a variety of materials used on the unseen or "wrong" side of fabrics in sewing to reinforce fabric
Lining	An inner layer of fabric, fur, or other material that provides a neat finish; conceals seam allowances, interfacing, and construction details; and allows a garment to slip on and off easily
Pattern	An original garment from which other garments of a similar style are copied, or the paper or cardboard templates from which the parts of a garment are traced onto fabric before cutting out and assembling (sometimes called paper patterns)
Piping	A type of trim or embellishment consisting of a strip of folded fabric inserted into a seam to define the edges or style lines of a garment or other textile object
Placket	An opening in the upper part of trousers or skirts, or at the neck or sleeve of a garment Plackets allow clothing to be put on or removed easily
Pleat	A type of fold formed by doubling fabric back upon itself and securing it in place. It is commonly used in clothing and upholstery to gather a wide piece of fabric to a narrower

	circumference
Seam	The line where two pieces of fabric are held together by thread
Seam allowances	Area between the edge of fabric and the stitching line on two (or more) pieces of material being stitched together
Stitch	A single turn or loop of the thread or yarn in sewing, knitting, and embroidery. All stitches made with a sewing needle with an "eye" or hole are variations on seven basic stitches: running stitch, backstitch, overcast stitch, cross stitch, buttonhole or blanket stitch, chain stitch
Trim	In clothing and home decorating is applied ornament such as gimp, ribbon, ruffles, or, as a verb, to apply such ornament
Twill tape	A flat twill-woven ribbon of cotton, linen, polyester, or wool

STANDARD PRACTICE

NATIONAL OCCUPATIONAL SKILLS STANDARD (NOSS) FOR SEWING OPERATION LEVEL 2

1. INTRODUCTION

Occupation Overview

Textiles and apparel are basic consumption items, in both developed and developing countries. The Malaysian textiles and apparel industry comprises of two main sectors. Those sectors are textiles and apparel, which include garment making and clothing accessories. The industry, especially clothing/apparel, is labour-intensive and requires skilled workers in the operation. From the official portal of Malaysia External Trade Development Corporation (MATRADE), the various made-in-Malaysia textile and apparel goods are jackets, overcoats, skirts, t-shirt, blouses, pants, undergarments, scarves, head gear (caps and hats) and textile accessories such as zippers, buttons, collars, cuffs, etc.

The industry insight sections stated that in Malaysia, the apparel sector has a long experience as producer of high end international brands. Such as Nike, Oshkosh, Burberry, Walt Disney, Puma, GAP, Ashworth and others under contract manufacturing arrangement. There are approximately 300 garment making companies supplying to domestic and export markets. These experiences have led to Malaysian apparel manufacturers emphasizing on design, production and high quality finishing. Various made in Malaysia apparels have gained international recognition for their quality, reliability and quick as well as prompt delivery. Malaysian apparels industry managed to sustain operation during the economic slowdown with minimal impact, thanks to continued demand for Malaysian made apparels due to the country's image as a reliable supplier. The mixed culture and international training/exposure of designers have enabled Malaysia to produce varied clothes suitable for all markets. from Asia. Europe to Middle East.(http://www.matrade.gov.my/en/foriegn-buyers-section/69-industry-write-up-products/722-textiles-and-apparel-, 04/09/2014, 4.00pm).

Sewing operation is the backbone in apparel industry. The readymade garment manufacturing processing depends on some steps and techniques. In this document, the term use for industrial sewing is to describe the process available in factories to mass-produce a wide range of clothing and other goods that are created by sewing different components together along the course of a structured process. In order to make the mass production of sewn items as cost effective as possible, it is not unusual for the operation to make use of a series of industrial sewing machines that are configured to perform specific functions. Therefore this NOSS document which covers sewing operations in apparel manufacturing emphasizes on the specialized processes in garment constructions such as collar and sleeve cuff creation, assembly

of bodies cut pieces such as front and back bodice, sleeves, hem and bottom cover stitch.

With such development in apparel production in Malaysia as well as globally, the demand for the semi skilled workers such as sewing operators and its equivalence is very high. When the policy shift from import substitution to export oriented industrialization was promulgated in the Second Malaysia Plan (1971-1975), it led to the growth of the textiles and apparel industry.

In response to the requirements to develop flexible, dynamic and responsive NOSS package, and also to fulfil the needs in providing multi-tasking and multi skilling personnel in sewing operation for Level 2, a session was conducted to revise the current NOSS (TA-020-1, 2,3: 2011) which is developed in 2011.

This was due to the current demands for Sewing Operation personnel and the anticipated future demand for certification. It will also fulfil the apparel manufacturing industry requirements and also enhance and maintain the competency of the skilled personnel in the field of textiles and apparel. The NOSS document shall be used as a basis for training and assessment by training providers in Malaysia. With the demand of skilled workers, there is a need for the sewing industry to produce quality, professional, well-trained and certified personnel in apparel manufacturing to fill in the demand in the country. This is in line with the Ministry of Human Resources strategic initiatives in increasing high skill technical workforce towards transforming Malaysia as a high income nation and developed country in 2020.

For this level 2, the prerequisite for program enrolment into training centre is physically fit, can read/write and have basic knowledge about sewing machine will be an added advantage and comply with training centres terms and condition. For job employment purposes, the pre-requisite will follow the company requirements.

2. OCCUPATIONAL STRUCTURE

Sewing Operation (Level 2) personnel come under sub-sector Apparel Manufacturing. Figure 1.1 and 1.2 show the structured career path and job area of Sewing Operation (Level 2) personnel.

SECTOR		TEXTILE & APPAREL										
SUB SECTOR		APPAREL MANUFACTURING										
AREA	APPAREL PRODUCTION MANAGEMENT											
JOB AREA	SAMPLE ROOM		CUTTING SECTION		N	SEWING SECTION	FINISHING SECTION					
SUB AREA	PATTERN MAKING	SAMPLE MAKING		CUTTING	EMBROIDERY	PANEL PRINTING	SEWING SECTION	WASHING IRONING	FOLDING	PACKING		
LEVEL 5				APF	PAREL PRODUCTION	ON MANAGER						
LEVEL 4	SAMPLE ROO	M EXECUTIVE	MARKER PLANNING EXECUTIVE			APPAREL	PRODUCTION EX	KECUTIVE				
LEVEL 3	PATTERN MAKER	SAMPLE MAKER SUPERVISOR	MARKER PLANNING SUPERVISOR	CUTTING SECTION PRODUCTION SUPERVISOR SUPERVISOR SUPERVISOR SUPERVISOR				ERVISOR				
LEVEL 2	ASSISTANT PATTERN MAKER	SAMPLE MAKER	CADCAM OPERATOR	SENIOR EMBROIDERY CUTTING SENIOR OPERATOR OPERATOR OPERATOR OPERATOR				FINISHING LINE LEADER				
LEVEL 1	NO LEVEL	NO LEVEL	NO LEVEL	CUTTING OPERATOR	EMBROIDERY OPERATOR	PANEL PRINTING OPERATOR	SEWING OPERATOR		OPERATOR	2		

Figure 1.1 Occupational Structures of Sewing Operation for Textile & Apparel Sector in Malaysia

Occupational Area Structure (OAS)

SECTOR		TEXTILE & APPAREL									
SUB SECTOR		APPAREL MANUFACTURING									
AREA		APPAREL PRODUCTION MANAGEMENT									
JOB AREA	SAMPLI	EROOM	CUTTING SECTION PLANNING			N	SEWING SECTION		FINISHING SECTION		
SUB AREA	PATTERN MAKING	SAMPLE MAKING		CUTTING	EMBROIDERY	PANEL PRINTING	SEWING SECTION	WASHI NG	IRONING	FOLDING	PACKING
LEVEL 5				APP	AREL PRODUCTIO	ON MANAGER					
LEVEL 4	SAMPLE D	DEVELOPMENT SF	PECIALIST			APPAREL F	PRODUCTION EXE	CUTIVE			
LEVEL 3	SAMPLE MAKING SUPERVISION		MARKER PLANNING SUPERVISION	CUTTING OPERATION SUPERVISOR		SEWING OPERATION SUPERVISION	FINISHING OPERATION SUPERVISION				
LEVEL 2	SAMPLE MAKING OPERATION		CADCAM OPERATION			EMBROIDERY PANEL PRINTING		FINISHING OPERATION		N	
LEVEL 1	NO LEVEL	NO LEVEL	NO LEVEL		OPERATION	OPERATION	EMBEDDED TO LEVEL 2				

Figure 1.2 Occupational Area Structures of Sewing Operation for Textile & Apparel Sector in Malaysia

3. DEFINITION OF COMPETENCY LEVELS

3.1 Level of Competency and Definition Stipulated by JPK

The NOSS is developed for various occupational areas. Candidates for certification must be assessed and trained at certain levels to substantiate competencies. Below is a guideline of each NOSS Level as defined by the Department of Skills Development, Ministry of Human Resources, Malaysia.

Level 1:	Competent in performing a range of varied work activities, most of which are routine and predictable
Level 2:	Competent in performing a significant range of varied work activities, performed in a variety of contexts. Some of the activities are non-routine and required individual responsibility and autonomy.
Level 3:	Competent in performing a broad range of varied work activities, performed in a variety of contexts, most of which are complex and non- routine. There is considerable responsibility and autonomy and control or guidance of others is often required.
Level 4:	Competent in performing a broad range of complex technical or professional work activities performed in a wide variety of contexts and with a substantial degree of personal responsibility and autonomy. Responsibility for the work of others and allocation of resources is often present.
Level 5:	Competent in applying a significant range of fundamental principles and complex techniques across a wide and often unpredictable variety of contexts. Very substantial personal autonomy and often significant responsibility for the work of others and for the allocation of substantial resources features strongly, as do personal accountabilities for analysis, diagnosis, planning, execution and evaluation.

4. AWARD OF CERTIFICATE

The Director General shall award, to any person upon successful completion the NOSS programme shall be awarded Malaysian Skills Certificate / Sijil Kemahiran Malaysia (SKM) Level 2 in Sewing Operation.

- a) Malaysian Skills Certificate / Sijil Kemahiran Malaysia (SKM) Level 1, 2 & 3
- b) Malaysian Skills Diploma / Diploma Kemahiran Malaysia (DKM) Level 4
- c) Malaysian Skills Advanced Diploma / Diploma Lanjutan Kemahiran Malaysia (DLKM) Level 5
- d) Statement of Achievement / Penyata Pencapaian (PC)

No person shall be awarded a Certificate unless he / she satisfies the requirements set by Malaysian Skills Certification System.

5. OCCUPATIONAL COMPETENCIES

The Sewing Operation (Level 2) personnel must be competent in performing the following core competencies:

- Sewing Area Housekeeping And Preventive Maintenance
- Garment Pocket Attachment
- Garment Placket Attachment
- Garment Shoulder, Sleeves and Side Seam Attachment
- Collar And Sleeve Cuff Creation
- Collar, Sleeve Cuff And Label Sewing Operation
- Bottom And Sleeve Hem Sewing
- Pants Bodice Panel Attachment
- Skirt Bodice Panel Attachment
- Garment Accessories Sewing Operation

6. WORKING CONDITIONS

6.1 Working environment

Sewing Operation personnel typically works in standard shifts/normal operation hours, except when approaching deadlines that demand overtime. They work within normal working hours from morning to evening depending on the organisation's nature of business. They may be required to work extra hours to fulfil internal and external requirements from buyers such as garment production timeline. They may also be exposed to prolong sitting and leaning over sewing machine table. Most sewing operators carry out their work by themselves, although some interact with supervisors and other production staff.

6.2 Issues Related To Area of Work

Good health and stamina are important because these workers must sit for long hours. Prolong exposure to sitting and leaning over sewing machine/work station may cause

irritation, so special care of ergonomic position must be taken when working. Personnel in this field are also required to adhere to safety and security procedures as well as statutory/regulatory bodies' requirements in order to protect themselves and companies benefits.

7. EMPLOYMENT PROSPECTS

7.1 Malaysian Market

The textiles and textile products industry in Malaysia comprises four sub-sectors, namely primary textiles which cover activities such as polymerisation, spinning, weaving, knitting and wet processing; made-up garments; made-up textiles; and textile accessories. The growth of Malaysia's textiles and apparel industry accelerated in the early 1970s when the country embarked on export-oriented industrialisation. Due to the intensified global competition, Malaysia textile manufacturers are moving up the value chain by diversifying into the production of higher value-added textiles, implementing automation and computerised manufacturing processes, seeking business collaboration with foreign companies to acquire new technologies and undertaking research and development activities to develop new processes, new applications and value-added products. The industry currently employs more than 68,000 workers. (Source: Malaysian Investment Development Authority-MIDA)

In 2011, the industry was the 10th largest export earner, contributing approximately 2.3 per cent to Malaysia's total exports of manufactured goods. Exports of textiles and textile products for the year 2011 were RM10.8 billion while imports amounted to RM6.6 billion. The main export items were yarn, woven fabrics and apparels while imports were mostly yarn and woven fabrics. Malaysia's apparel manufacturers continue to maintain an excellent reputation for quality to meet high standards set by international brands owner such as Nike, Adidas, DKNY, Ann Taylor, Armani, Talbots, Puma, Asics, Levis and Tommy Hilfiger.

New growth areas in textiles industry have been targeted for promotion under the Third Industrial Master Plan (IMP3). The growth areas for the industry include industrial and home textiles, functional fabrics, high-end fabrics and garments, ethnic fabrics, and key support facilities and services such as design houses and fashion centres, specialized dyeing and finishing facilities..

There are excellent prospects in the private sector/company due to a shortage of handson experts in the sewing operation area. The same is also true in the public sector where this area seems to be currently experiencing a lack of professionals and wellexperienced personnel. This area, thus, has a very good job market potential for skilled personnel due to a shortage of such highly skilled experts in this region.

Upon completion of the Competency Units (Core), other related occupations with respect to employment opportunities are:

- Embroidery Operator
- Sewing Operator
- Finishing Operator
- Sample Making Operator

Other related industries with respect to employment opportunities are:

- Automotive Industry (Product)
- Home Accessories

7.2 International Market

There is a potential for our personnel to work overseas by looking at the demands and trends of employment opportunities internationally. Subject to licensing in various countries, there is an opportunity to seek employment abroad.

8. TRAINING, INDUSTRIAL/PROFESSIONAL RECOGNITION, OTHER QUALIFICATIONS AND ADVANCEMENTS

Sewing operation personnel is a skilled profession and many sewing operators have to work from basic. As for career advancement, most competent sewing personnel develop their competency through real-world on-the-job situations. Trainees begin by observing and assisting experienced workers, sometimes in formal training programmes. They then advance to the more difficult tasks performed by experienced workers such as supervisory and management programmes.

9. SOURCES OF ADDITIONAL INFORMATION

9.1 National

- Malaysian Textile Manufacturers Association (MTMA) C-9-4, Megan Avenue 1, 189 Jalan Tun Razak, 50400 Kuala Lumpur, Malaysia Tel: +603-2162 1454 Fax:+603-21625148 Email: info@mtma.org.my
- Malaysian Textile and Apparel Centre (MATAC) C-9-4, Megan Avenue 1, 189 Jalan Tun Razak, 50400 Kuala Lumpur, Malaysia Tel: +603-2162 1454 Fax: +603-21625148 Email: secretariat@matac.com.my

- Malaysian Knitting Manufacturers Association (MKMA) 12-1, Jalan Megat, 83000 Batu Pahat, Johor, Malaysia Tel: 607- 4343203 Fax: 607 – 4314682 Email: Rebecca@mkma.org Website: http://www.mkma.org
- Malaysia External Trade Development Corporation (MATRADE) Menara MATRADE, Jalan Khidmat Usaha, Off Jalan Duta 50480 Kuala Lumpur, Malaysia Tel:+603-6207 7077 Fax:+603-6203 7037 Email: info@matrade.gov.my Website: www.matrade.gov.my
- Ministry of International Trade and Industry (MITI) Block 10, Government Offices Complex, Jalan Duta, 50622 Kuala Lumpur, Malaysia Tel:+603-80008000 Fax:603-62012337 Email:webmiti@miti.gov.my
- Malaysian Investment Development Authority (MIDA) Block 4 Plaza Sentral Jalan Stesen, Sentral 5, 50470 Kuala Lumpur, Federal Territory of Kuala Lumpur, Malaysia +60 3-2267 3633
- Malaysia Production Corporation (MPC) Lorong Produktiviti, Off Jalan Sultan, 46200 Petaling Jaya, Selangor Darul Ehsan. Malaysia Tel: 603 - 7955 7266 Fax: 603 - 7957 8068 Email:marketing@mpc.gov.my
- Ministry of Domestic Trade, Co-operation Consumerism, Kementerian Perdagangan Dalam Negeri, Koperasi dan Kepenggunaan No 13, Persiaran Perdana, Presint 2, 62623 Putrajaya, Malaysia Tel: 603-8000 8000 Fax: 603-8882 5762
- Department of Occupational Safety and Health (DOSH) Ministry of Human Resources Level 2,3&4, Block D3, Complex D Federal Government Administrative Centre 62530 W. P. Putrajaya Tel: 603-8886 5000 Fax: 603-8889 2443

9.1 International

- Asean Federation of Textile Industries (AFTEX) Secretariat Office
 C-9-4, Megan Avenue 1,
 189 JalanTunRazak,
 50400 Kuala Lumpur, Malaysia
 Tel: +603-2162 1454 Fax:+603-21625148
 Email: info@mtma.org.my
- The Academy of Fashion Profession (TaF.tc) Central Plaza #14-06
 298 Tiong Bahru Road
 Singapore 168730
 Tel: (65) 64759897) Fax: (65) 64753583
 www. taftc.org
- Garment Manufacturer Association in Cambodia No. 175 Jawahar Nehru Blvd (Street 215) Phnom Penh, Kingdom of Cambodia Tel: (855) 23-301 181 Fax: (855) 23-882 860 Email: info@gmac-cambodia.org
- Cotton Incorporated 488 Madison Avenue New York, NY 10022-5702 Tel: (212) 4138300 Fax: (212) 4138377
- International Organization for Standardization ISO Central Secretariat,
 1, ch. de la Voie-Creuse, CP 56,
 CH-1211, Geneva 20,
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 Tel: 41-22-749 01 11
 Fax: 41-22-733 34 30
 E-mail: central@iso.org
 Web: http://www.iso.org
- International Labour Organisation (ILO) 4 route des, Morillons, CH-1211,Geneva 22, Switzerland Tel: 41-22-799-6111 Fax: 41-22-798-8685 Website: www.ilo.org E-mail: ilo@ilo.org

10. ACKNOWLEDGEMENTS

The Director General of DSD would like to extend his gratitude to the organisations and individuals who have been involved in developing this standard.

This Standard has been proofread by a qualified personnel, named as follows;

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Qualification	: MEd, Open University Malaysia (OUM), BSc (Ed) Hons, University
	Sains Malaysia (USM) & TESL (Certificate), Institut Bahasa

A draft of this Standard was circulated to the following list of companies for two weeks for validation and feedback:

- i. TPI Industries Sdn. Bhd.
- ii. Tai Wah Garments Industry Sdn. Bhd

This Standard has been checked by **the MATAC Coordinator**, **DSD and approved by the members of Skills Development Endorser Committee (SDEC) on** <u>15th October 2014</u>. The SDEC members listed bellow has reached a consensus on this standard.

- i. Ms Audra Chin
- ii. Encik Jamizal Bin Mohammad Zinul
- iii. Encik Rosli bin Mad Isa
- iv. Encik ShahifulNawar bin Ismail

11. COMMITTEE MEMBERS FOR DEVELOPMENT OF STANDARD PRACTISE (SP), COMPETENCY PROFILE CHART (CPC), COMPETENCY PROFILE (CP) AND CURRICULUM OF COMPETENCY UNIT (COCU)

	PANEL EXPERTS						
		Supervisor					
1.	Puan Lim Hwi Tin	Honsin Apparel Sdn. Bhd.					
		Segamat, Johor					
		Sewing Industrial/ Trainer					
2.	Puan Foo Fong Kwee	Honsin Apparel Sdn. Bhd.					
		Segamat, Johor					
		Supervisor					
3.	Puan Zaidah Bin Maskor	Song Lin Garments					
		Batu Pahat, Johor					
		Supervisor					
4.	Puan Liam Bin Hoon	Seven Star Enterprise					
		Batu Pahat, Johor					
		Supervisor					
5.	Puan Thong Kwai May	Keenway Industries Sdn. Bhd.					
		Kluang, Johor					
		Sewing Operator					
6.	Puan Song Soon Ai	Sub-Contractor (Sewing)					
		Batu Pahat, Johor					
		Sewing Operator					
7.	Puan Teo Geok Moi	Sub-Contractor (Sewing)					
		Batu Pahat, Johor					
8.	Puan Chong Kim Tai	Trainer Malaysian Textile and Apparel Centre (MATAC) Batu Pahat, Johor					
	FACILITATOR						
1.	Puan Siti Salmah Binti Mohd Nor	HKN Consult Sdn. Bhd.					

TA-020-2:2014- SEWING OPERATION – LEVEL 2

COMPETENCY PROFILE CHART (CPC)

		<u> </u>					
SECTOR	TEXTILE & APPAR	TEXTILE & APPAREL					
SUB SECTOR	APPAREL MANUE	APPAREL MANUFACTURING					
JOB AREA	MASS PRODUCTIO	MASS PRODUCTION (SEWING SECTION)					
NOSS TITLE	SEWING OPERATION						
JOB LEVEL	TWO (2) JOB AREA CODE TA-020-2:2014						

COMPET	ENCY	←	COMPET		>
COR	E	SEWING AREA HEALTH, SAFETY AND ENVIRONMENTAL COMPLIANCE PRACTICES	APPAREL POCKET ATTACHMENT	APPAREL PLACKET ATTACHMENT	APPAREL SHOULDER, SLEEVES AND SIDE SEAM ATTACHMENT
		TA-020-2:2014-C01	TA-020-2:2014-C02	TA-020-2:2014-C03	TA-020-2:2014-C04
		COLLAR AND SLEEVE CUFF CREATION	COLLAR, SLEEVE CUFF AND LABEL SEWING OPERATION	BOTTOM AND SLEEVE HEM SEWING	PANTS BODICE PANEL ATTACHMENT
		TA-020-2:2014-C05	TA-020-2:2014-C06	TA-020-2:2014-C07	TA-020-2:2014-C08
		SKIRT BODICE PANEL ATTACHMENT	APPAREL ACCESSORIES SEWING OPERATION		
		TA-020-2:2014-C09	TA-020-2:2014-C10		

COMPETENCY PROFILE(CP)

Sub-Sector	APPAREL MANUFACTURING
Job Area	MASS PRODUCTION (SEWING SECTION)
NOSS Title	SEWING OPERATION
Level	TWO(2)

CU Title	CU Code	CU Descriptor		CU Work Activities		Performance Criteria
1. Sewing Area Health, Safety And Environment	TA-020- 2:2014- C01	Sewing Area Health, Safety And Environment (HSE) Compliance Practices competency unit specifies the competency in complying sewing operations related to	1.	Prepare housekeeping and preventive maintenance requirements	1.1	Sewing operation production details identified according to operation plan
Compliance Practices		HSE. Activities comprises of practising good housekeeping and preventive maintenance of workstation and machineries as well as adherence to safety,			1.2	Machineries utilization schedule confirmed according to job order and production schedule
		health and environments requirements at sewing area/workplace. Definition of sewing area in this competency unit covers elements in apparel sewing activities such as work areas, facilities, machineries and			1.3	Work area and sewing machines category identified according to preventive maintenance schedule
		environment. The person who is competent in health, safety and environment compliance			1.4	Work instructions interpreted according to Standard Operating Procedure (SOP)
		practices should be able to comprehend work instructions in machine preventive maintenance, workplace organization, Occupational Safety, Health and Environment requirements and company			1.5	Tools, equipment and materials to be used for preventive maintenance activities obtained and arranged
		Standard Operating (SOP). She/he should be able to prepare housekeeping and preventive maintenance			1.6	Preventive maintenance records to be completed confirmed and interpreted according to job order
		requirements, check sewing workplace condition, carry out work area housekeeping and preventive maintenance, practise			1.7	Personal and occupational health and safety practices

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
		health, safety and environment requirements and upkeep work area after operation.		interpreted according to regulatory/statutory bodies requirements
		The outcome of this competency is to maintain sewing area and machineries condition and ensure all machineries and tools are well functioned and safe to be used, workplace arrangement as per work flow and health, safety and environment compliance is practised in accordance with company procedures.	2. Check sewing workplace condition	 2.1 Work area condition visually inspected and safety confirmed for sewing operation according to Health, Safety and Environment regulations 2.2 Tools and machine cleanliness and tidiness visually checked according to work organization method such
				as 5S 2.3 Sewing machine specifications and functions identified according to machine manual
				2.4 Needle characteristic identified and selected based on various fabrics and type of apparel
				2.5 Sewing thread characteristic identified according to thread specifications
				2.6 Sewing machine driving and threading mechanism setting and functions confirmed according to machine operating manuals
				2.7 Material handling components condition and

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				functions tested according to feeding mechanism (bottom feed/top feed) 2.8 Malfunction/irregularities of preventive maintenance facilities, equipment and tools and sewing machine documented and reported to superior for further action
			3. Carry out work area housekeeping and preventive maintenance	 3.1 Paper/cloth for checking oil leak on the needle plate checked and disposed according to disposal procedure 3.2 Oil, dust and foreign materials cleaned and removed from sewing machine and work area according to cleaning procedure
				3.3 Damaged parts replaced/reported to superior for further action according to Standard Operating Procedure
				3.4 Various type of waste disposed according to disposal procedure and regulatory/statutory bodies requirements
				 3.5 Used tool, equipment, material for preventive maintenance stored/kept in place according to work organization method 3.6 Housekeeping and

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				preventive maintenance job completeness confirmed according to reporting procedure and company policy.
			 Practise health, safety and environment requirements 	 4.1 Personal health and safety requirements to be complied interpreted according to Occupational Safety, Health and Environment Acts. 4.2 Machine safety components/ devices functionality tested and attached to machine according to machine manuals 4.3 Bands specifications to
				attach sharp tools utilised according to safety requirements
				4.4 Machineries parts inclusive electrical components operated according to operation procedure and safety instructions
				4.5 Sewing tools utilised in safely manner according to safety instructions
				4.6 Sewing machine and electrical equipment safety procedure interpreted and followed strictly
				4.7 Waste disposal procedure interpreted and followed

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			5. Upkeep work area after	according to Standard Operating Procedure
			operation	5.1 All sewing machineries kept clean and switched off after operation according to machine operation manual
				5.2 Used sewing tool, equipment for sewing operation condition checked, documented and stored/kept in place according to work organization method and documentation procedure
				5.3 Unused sewing materials kept safely, returned to storage area and reported to superior according to company policy
				5.4 Various sewing waste disposed according to disposal procedure and regulatory/statutory bodies requirements
				 5.5 Materials used for checking oil leak-placed on needle plate after working hours according to preventive maintenance work instructions.

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
2. Apparel Pocket Attachment	TA-020- 2:2014- C02	Apparel Pocket Attachment competency unit specifies the competency in sewing various types of pocket to apparel bodice panel in accordance with job specifications and Standard Operating Procedure (SOP).The term apparel covers shirts, blouses, jacket, pants, and skirt. The person who is competent in apparel pocket attachment should be able to comprehend the pocket design, specifications, pocket attachment procedure, method, technique and Standard Operating Procedure (SOP). She/he should be able to check pocket attachment requirements, prepare pocket attachment requirements, fold pocket cut piece, carry out front bodice piece marking, create apparel pocket opening and sew attached pocket cut piece. The outcome of this competency is to ensure the pocket cut pieces are assembled, attached and sewn as per requirements, specifications and apparel design.	1. Check pocket attachment requirements	 Job order information identified according to production schedule Job specifications interpreted according to job order and production approved sample Pocket measuring data reviewed according to measuring manual Sewing method and technique identified according to job specifications, machine operating manual, and production approved sample Materials specifications identified according to job specifications Defects on materials identified according to quality standards requirements Pocket specifications identified according to apparel sample and fabric specifications
			2. Prepare pocket attachment requirements	 2.1 Work area, personal hygiene, safety and health requirements practised according to company policy 2.2 Personal Protective Equipment (PPE) utilization confirmed

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 according to safety requirements 2.3 Right body posture (sitting position) kept securely and practiced according to ergonomic deportment requirements 2.4 Work station/machine setting confirmed and chairs positions adjusted according to work flow and ergonomic deportment requirements 2.5 Sewing machine components and functions setting confirmed and thread tension adjusted according to machine specifications and production specifications requirements 2.6 ewing tools and equipment functions ensured and organised according to work flow and safety requirements 2.7 Materials for making pocket selected according to fabric type and pocket pattern design 2.8 Materials and pocket cut piece arranged on workstation according to work flow and Standard Operating Procedure

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
CU Title		CU Descriptor	CU Work Activities 3. Fold pocket cut piece	 3.1 Pocket specifications confirmed according to job specifications 3.2 Fabric and soft paper organised and attached on correct side according to pocket specifications 3.3 Pocket sample cardboard placement on the pocket cut piece confirmed according to pocket type 3.4 Alignment accuracy of pocket opening with fabric edge confirmed according to pocket design 3.5 Direction of folded edge pocket cut piece on sample cardboard followed according to folding method 3.6 Folded edge neatness strengthened with ironing
			 Carry out front bodice piece 	 automatically/manually according to fabric type and temperature specifications 3.7 Folded pocket finished appearance confirmed and corrective action made on misshape folded pocket
			marking	4.1 Front bodice piece position on sewing table with correct side up confirmed according to apparel design and marking procedure

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 4.2 Marked cardboard/pocket shape hole at cardboard placed on the bodice piece according to marking method 4.3 Pocket hole position alignment accuracy confirmed and adjusted according to measurement and marking method 4.4 Pocket position marked with safe marking materials such as special washable ink marker/top stitch according to fabric type and texture 4.5 Marking output visually checked according to pocket specifications
			5. Create apparel pocket opening	 5.1 Pocket opening design and specifications confirmed according to apparel specifications and job specifications 5.2 Pocket opening creation procedure followed, method and technique applied according to pocket specifications 5.3 Pocket bag and front apparel panel (for side, welt pocket) positions and alignment accuracy confirmed 5.4 Pocket flaps/cover creation procedure

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 followed, method and technique (if applicable) applied according to pocket specifications 5.5 Pocket opening size cut according to pocket specifications 5.6 Top stitching and reverse stitching applied on attached pocket bag according to pocket design 5.7 Pocket bag shape and opening visually checked and corrective action made on misshape folded pocket
			 Sew attached pocket cut piece 	 6.1 Folded pocket placement and direction confirmed on the marked position according to pocket placement method 6.2 Accessories to be attached on pocket determined according to pocket specifications 6.3 Folded pocket sewn according to sewing method and technique
				 6.4 Pocket bag over locking and outside seaming carried out according to pocket design 6.5 Pocket finished appearance confirmed according to job

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 specifications 6.6 Finished pocket position measurement confirmed according to job order and apparel design 6.7 Pocket defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements
3. Apparel Placket Attachment	TA-020- 2:2014- C03	Apparel Placket Attachment competency unit specifies the competency in sewing apparel plackets in accordance with job specifications and Standard Operating Procedure (SOP). Plackets are defined as finished openings constructed in order to make it easy to put on or take off apparel. The person who is competent in apparel placket attachment should be able to comprehend the placket design, specifications, placket attachment procedure, method, technique and Standard Operating Procedure (SOP). She/he should be able to check placket attachment requirements, prepare placket fabric, attach placket to bodice panel and sew attached placket.	1. Check placket attachment requirements	 1.1 Job order information identified according to production schedule 1.2 Job specifications interpreted according to job order and production approved sample 1.3 Placket measuring data reviewed according to measuring manual 1.4 Sewing method and technique identified according to job specifications, machine operating manual, and production approved sample 1.8 Materials specifications identified according to job specifications

CU Title	CU Code	CU Descriptor		CU Work Activities		Performance Criteria
		The outcome of this competency is to ensure the placket cut pieces are assembled, attached and sewn as per requirements, sewing technique and designs.			1.5	Defects on materials identified according to quality standards Placket specifications identified according to apparel design and fabric type
			2.	Prepare placket attachment requirements	 2.1 2.2 2.3 2.4 2.5 2.6 	Personal hygiene and health requirements practised according to company policy Personal Protective Equipment (PPE) utilization confirmed according to safety requirements Right body posture (sitting position) kept securely and practiced according to ergonomic deportment requirements
						equipment functions

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
	Code		3. Reinforce placket fabric	 ensured and organised according to work flow and safety requirements 2.7 Materials for placket selected according to fabric type and apparel design 2.8 Placket cut piece and reinforcement prepared and arranged on workstation according to work flow and Standard Operating Procedure 3.1 Placket specifications confirmed according to job order 3.2 Placket fabric and reinforcement materials specifications confirmed according to job order 3.3 Placket reinforcement materials on fabric cut piece infused by hot pressing or sewn according to reinforcement method and materials type 3.4 Shape and condition of reinforced placket fabric visually checked and measurement accuracy confirmed according to placket specifications
			4. Attach placket to bodice piece	4.1 Front bodice piece design (separated piece or single/combined piece)

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			5. Sew attached placket	 confirmed according to apparel design 4.2 Placket attachment procedure followed, method and technique applied according to placket specifications 4.3 Marking on front bodice created according to apparel design 4.4 Right side of semi-finish placket placed accurately on the front bodice marked position 4.5 Semi finished placket measurement confirmed according to job specifications 5.1 Semi-finished placket sewn at the centre of marking based on placket type according to sewing method and technique 5.2 Slit measurement at bodice neck confirmed, snipped and the corner stitched to form a triangle according to placket attachment method, design and fabric type 5.3 Placket panel folded inside the front bodice piece and interfolded based on fabric and type of placket 5.4 Attached placket sewn partially in sequence

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 (right, left and bottom) according to sewing method and technique 5.5 Placket finished appearance confirmed according to job specifications 5.6 Placket defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements
4. Apparel Shoulder , Sleeves and Side Seam Attachment	TA-020- 2:2014- C04	Apparel Shoulder, Sleeves and Side Seam Attachment competency unit specifies the competency in joining front and back bodice pieces at shoulder area, sleeves at armhole and closing side seam in accordance with job specifications and Standard Operating Procedure (SOP). The person who is competent in apparel shoulder attachment should be able to comprehend the job specifications, attachment procedure, method, technique and Standard Operating Procedure (SOP). She/he should be able to prepare shoulder, sleeve and side seam attachment requirements, carry out shoulder attachment, carry out sleeve and side seam	 Prepare shoulder, sleeve and side seam attachment requirements 	 1.1 Personal hygiene and health requirements practised and Personal Protective and Equipment (PPE) utilized according to company policy, safety and ergonomic deportment requirements 1.2 Job order information identified according to production schedule 1.3 Job specifications interpreted according to job order and production approved sample 1.4 Sewing method and technique identified according to job

CU Title Co		CU Descriptor	CU Work Activities		Performance Criteria
	a s T e a s	attachment and check shoulder, sleeve and side seam output. The outcome of this competency is to ensure the front and back bodice pieces and sleeves cut pieces are joint and sewn at shoulder parts, armhole and both side seams as per requirements and designs.		1.5 1.6 1.7 1.8 1.9	specifications, machine operating manual, and production approved sample Materials specifications identified according to job order Defects on materials identified according to quality standards Work station/machine setting confirmed and chairs positions adjusted according to work flow and ergonomic deportment requirements Sewing machine components and functions setting confirmed and thread tension adjusted according to machine specifications and production specifications requirements Sewing tools and equipment functions ensured and organised according to work flow and safety requirements Materials, shoulder/sleeve cut piece arranged on workstation according to work flow and Standard Operating Procedure
			2. Carry out shoulder attachment	2.1	Shoulder measuring data confirmed according to apparel specifications

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 2.2 Shoulder design and specifications identified according to production approved sample 2.3 Shoulder attachment procedure followed, method and technique applied according to job specifications 2.4 Reinforcement materials utilised if applicable according to fabric type 2.5 Bodice back piece specifications determined according to production approved sample 2.6 Yoke and back pieces attachment procedure followed, method and technique applied according to bodice back piece specifications 2.7 Apparel front and back bodice sides attached according to fabric specifications 2.8 Front and back bodice shoulder sewn with/without reinforcement materials according to sewing technique
			3. Carry out sleeve and side seam attachment	 3.1 Sleeve and side seam measuring data confirmed according to apparel specifications 3.2 Front and back bodice

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
	Code			 placement determined according to apparel specifications 3.3 Side vent length measured and marked according to apparel type 3.4 Right and left side vent measurement accuracy confirmed according to measuring specifications 3.5 Sleeve cut piece placement on bodice piece confirmed according to job order 3.6 Attached parts sewn according to sewing method, technique and apparel design (with/without gathers/dart/pleats) 3.7 Front and back bodice piece placement and alignment confirmed and sewn partially based on measurement of side seam vent according to apparel design, sewing technique and machine specifications 3.8 Side vent measurement accuracy confirmed according to apparel design 3.9 Side vent position attached and interfolded according to side vent specifications
				3.10 Front and back bodice

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				topstitched in complete cycle according to side vent specifications 3.11 Reverse-stitched on attached sleeve applied according to sewing technique and machine specifications
			 Check shoulder, sleeve and side seam output 	4.1 Shoulder / sleeve and side seam finished appearance confirmed according to job specifications
				4.2 Upper front bodies on upper back bodice piece placement and alignment accuracy confirmed according to job specifications
				 4.3 Right and left bodice of joint shoulder dimension accuracy measured according to job specifications
				4.4 Attached shoulder, sleeve and side seam defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard
				Operating Procedure and Quality Standard requirements

CU Title	CU Code	CU Descriptor		CU Work Activities		Performance Criteria
5. Collar And Sleeve Cuff Creation	TA-020- 2:2014- C05	Collar And Sleeve Cuff Creation competency unit specifies the competency in creating collar and sleeve cuff in accordance with job specifications and Standard Operating Procedure (SOP). The person who is competent in collar creation should be able to comprehend the job specifications, creation procedure, method, technique and Standard Operating Procedure (SOP). She/he should be able to prepare collar and sleeve cuff creation requirements, carry out collar creation, carry out sleeve cuff creation and check collar and sleeve cuff output. The outcome of this competency is to ensure the collar and sleeve cuff are created and sewn as per requirements, sewing technique and designs.	1.	Prepare collar and sleeve cuff creation requirements	 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 	Personal hygiene and health requirements practised and Personal Protective and Equipment (PPE) utilized according to company policy, safety and ergonomic deportment requirements Job order information identified according to production schedule Job specifications interpreted according to job order and production approved sample Sewing method and technique identified according to job specifications, machine operating manual, and production approved sample Materials specifications identified according to job specifications Defects on materials identified according to quality standards Work station/machine setting confirmed and chairs positions adjusted according to work flow and ergonomic deportment requirements Sewing machine components and functions setting confirmed and thread tension adjusted

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			2. Carry out collar creation	 according to machine specifications and production specifications requirements 1.9 Sewing tools and equipment functions ensured and organised according to work flow and safety requirements 1.10 Material for collar creation selected and arranged on workstation according to work flow and Standard Operating Procedure 2.1 Collar specifications confirmed according to apparel specifications 2.2 Reinforcement materials specifications determined based on fabric type 2.3 Collar creation procedure followed according to collar specifications 2.4 Folded fabric and interlining fixed together by ironed/hot pressed according to collar creation method 2.5 Collar fabric and interlining materials alignment checked according to collar type 2.6 Attached fabric at collar opening sewn according to sewing technique and collar specifications 2.7 Attached collar

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				interfolded, creased and top stitched according to collar creation process
			3. Cary out sleeve cuff creation	3.1 Sleeve cuff specifications / measuring data confirmed according to
				 apparel specifications 3.2 Reinforcement materials specifications determined based on fabric type
				3.3 Sleeve cuff creation procedure followed according to sleeve cuff
				 specifications 3.4 Folded fabric and interlining fixed together by ironed/hot pressed according to sleeve cuff
				reinforcement method 3.5 Alignment of fabric and interlining fabric checked and size confirmed according to sleeve cuff
				type 3.6 Sleeve cuff sewn according to sewing technique and sleeve cuff specifications
				 3.7 Attached fabric interfolded, creased and top stitched according to cuff creation process
			 Check collar and sleeve cuff output 	4.1 Collar and sleeve cuff finished appearances confirmed according to job specifications

CU Title	CU Code	CU Descriptor	CU Work Activities		Performance Criteria
				4.2	Collar and sleeve cuff measurement and opening dimension ensured according to job order and apparel design Collar and sleeve cuff defects visually checked, category identified and discrepancies/ defects reported to superior for further action (repair/rework) according to Standard Operating Procedure and Quality Standard requirements
6. Collar, Sleeve Cuff And Label Sewing Operation	TA-020- 2:2014- C06	Collar, Sleeve Cuff And Label Sewing Operation competency unit specifies the competency in attaching and sewing collar, sleeve cuff and label to apparel in accordance with job specifications and Standard Operating Procedure (SOP). The person who is competent in collar, sleeve cuff and label sewing should be able to comprehend the apparel design, job specifications, collar, sleeve cuff and label sewing technique and Standard Operating Procedure (SOP). She/he should be able to prepare sewing area and materials requirements, carry out collar and label sewing process, carry out sleeve cuff sewing process and check collar, label and sleeve cuff attachment output. The outcome of this competency is to	1. Prepare sewing area and materials requirements	1.1 1.2 1.3 1.4	Personal hygiene and health requirements practised and Personal Protective and Equipment (PPE) utilized according to company policy, safety and ergonomic deportment requirements Job order information identified according to production schedule Job specifications interpreted according to job order and production approved sample Work station/machine setting confirmed and chairs positions adjusted according to work flow and ergonomic deportment requirements

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
		ensure the collar, sleeve cuff and label are assembled, attached and sewn as per requirements, sewing technique and designs.	2. Carry out collar and label sewing process	 1.5 Sewing machine components and functions setting confirmed and thread tension adjusted according to machine specifications and production specifications requirements 1.6 Sewing tools and equipment functions ensured and organised according to work flow and safety requirements 1.7 Materials specifications identified according to job specifications 1.8 Sewing materials arranged on workstation according to work flow and Standard Operating Procedure 2.1 Collar and label measuring data confirmed according to apparel specifications 2.2 Collar and label sewing procedure followed, method and technique applied according to job specifications, machine operating manual, and production approved sample

CU Title	CU Code	CU Descriptor	CU Work Activities		Performance Criteria
				 2.3 2.4 2.5 2.6 2.7 2.8 	Sewing points and line at left and right shoulder of collar, neck centre of bodice piece marked according to apparel design and fabric type Collar attachment (top stitch) at bodice neckline/ left placket point position fixed and sewn according to sewing method, technique and fabric type Attached semi-finished placket sewn completely according to sewing method and technique Label specifications confirmed according to apparel design Label attachment/insertion procedure followed, method and technique applied according to fabric type and customer requirements Label design and measurement confirmed according to apparel design
			 Carry out sleeve cuff sewing process 	3.1 3.2	Sleeve cuff specifications/ measuring data confirmed according to apparel specifications Sleeve cuff sewing procedure followed, method and technique applied according to job

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			 Check collar, label and sleeve cuff attachment output 	 specifications, machine operating manual, and buyer approved sample 3.3 Cuff design and measurement confirmed according to apparel design 3.4 Sewing marking points confirmed according to apparel design and fabric type 3.5 Cuff stitched/fixed at sleeve marking position confirmed and sewn according to sewing method , technique and fabric type 4.1 Collar and labels finished appearance confirmed according to job specifications 4.2 Collar and label position on bodice and dimension accuracy ensured according to job order, apparel design and quality standards requirements 4.3 Sleeve cuff attachment finished appearances confirmed according to job specifications 4.4 Collar, label and sleeve cuff defects visually checked, category identified and discrepancies/ defects reported to superior for

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				further action according to Standard Operating Procedure and Quality Standard requirements
7. Bottom And Sleeve Hem Sewing	TA-020- 2:2014- C07	Bottom And Sleeve Hem Sewing competency unit specifies the competency in sewing bottom and sleeve hem in accordance with job specifications and Standard Operating Procedure (SOP). The person who is competent in bottom and sleeve hem sewing should be able to comprehend the job specifications, bottom and sleeve hem sewing technique such as cover stitching and Standard Operating Procedure (SOP). She/he should be able to check bottom and sleeve hem sewing requirements, prepare bottom and sleeve hem sewing requirements, sew bottom and sleeve hem and check bottom and sleeve hem output. The outcome of this competency is to ensure the apparel bottom and sleeve hem are sewn and sewing technique such as cover stitching applied as per requirements and designs.	 Check bottom and sleeve hem sewing requirements 	 1.1 Job order information identified according to production schedule 1.2 Job specifications interpreted according to job order and production approved sample 1.3 Sewing method and technique identified according to job specifications, machine operating manual, and production approved sample 1.4 Bottom and sleeve hem measuring data identified according to measuring manual 1.5 Materials specifications identified according to job order 1.6 Bottom and sleeve hem specifications identified according to production approved sample
			 Prepare bottom and sleeve hem sewing requirements 	2.1 Personal hygiene and health requirements practised and Personal Protective and Equipment (PPE) utilized according to company policy, safety and ergonomic

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
CU Title		CU Descriptor	CU Work Activities	Performance Criteriadeportment requirements2.2Work station/machine setting (arrangement, condition, height) confirmed and chairs
				 inch (SPI),speed) 2.4 Sewing tools and equipment functions ensured and organised according to work flow and safety requirements 2.5 Reinforcement materials (elastic/non elastic) arranged according to job order and apparel design
			3. Sew bottom and sleeve hem	 3.1 Reinforcement materials (if applicable) attachment confirmed according to apparel design 3.2 Fabric at bottom and sleeve parts folded inside according to job

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				specifications 3.3 Folded parts sewn according to sewing technique and machine specifications
			 Check bottom and sleeve hem output 	 4.1 Bottom and sleeve hem finished appearance confirmed according to job specifications 4.2 Bottom and sleeve hem measurement accuracy confirmed and discrepancies in measurement reported to supervisor for further action such as to be
				action such as to be repaired/ reworked 4.6 Bottom and sleeve hem defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
8. Pants Bodice Panel Attachment	TA-020- 2:2014- C08	Pants Bodice Panel Attachment competency unit specifies the competency in sewing pants bodices piece. in accordance with job specifications and Standard Operating Procedure (SOP).This competency is part of pants making process. The person who is competent in pants bodice panel attachment should be able to comprehend pants design, specifications, pants bodice attachment procedure, method, technique and Standard Operating Procedure (SOP). She/he should be able to check pants bodice attachment requirements, prepare pants bodice attachment requirements, prepare pants fly, sew pants fly, carry out pants bodice piece attachment and carry out pants bottom hemming. The outcome of this competency is to ensure front and back pants bodice pieces are assembled and sewn as per requirements and designs.	 Check pants bodice attachment requirements 	 1.1 Job order information identified according to production schedule 1.2 Job specifications interpreted according to job order and production approved sample 1.3 Pants measuring data reviewed according to measuring manual 1.4 Materials specifications identified according to job order 1.5 Defects on materials identified according to quality standards 1.6 Sewing method and technique identified according to job specifications, machine operating manual, and production approved sample 1.7 Pants specifications identified according to apparel design and fabric type
			2. Prepare pants bodice attachment requirements	 2.1 Personal hygiene and health requirements practised and Personal Protective and Equipment (PPE) utilized according to company policy, safety and ergonomic deportment requirements 2.2 Work station/machine setting confirmed and

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 chairs positions adjusted according to work flow and ergonomic deportment requirements 2.3 Sewing machine components and functions setting confirmed and thread tension adjusted according to machine specifications and production specifications requirements 2.4 Sewing tools and equipment functions ensured and organised according to work flow and safety requirements 2.5 Materials selected according to fabric type and fly pattern design 2.6 Front and back bodice, fly cut piece and materials arranged on workstation according to work flow and Standard Operating Procedure
			3. Prepare pants fly	 3.1 Fly specifications confirmed according to job order 3.2 Fly fabric specifications (type, texture) and reinforcement materials specifications (fusible/infusible, hard fabric/interlining, dimension, texture) confirmed according to job

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 order 3.3 Reinforcement materials placed by sewing/hot pressing on fly fabric according to placket design and materials type 3.4 Fly preparation procedure followed, method and technique applied according to pants specifications 3.5 Shape and condition of reinforced fly fabric visually checked according to placket specifications
			4. Sew pants fly	 4.1 Front bodice piece design confirmed according to apparel design 4.2 Marking on front bodice created according to apparel design 4.3 Right side of semi-finish fly placed accurately on the front bodice marked position 4.4 Semi-finished fly measurement confirmed according to job order 4.5 Fly position and direction determined according to pants design and users gender 4.6 Semi-finished fly sewn at the centre of marking based on fly type according to sewing

CU Title	CU Code	CU Descriptor		CU Work Activities		Performance Criteria
					4.7 4.8	method and technique Fly panel folded inside the front bodice piece and interfolded based on fabric and type of placket Attached fly sewn partially in sequence (right, left and bottom) according to sewing method and technique
			5.	Carry out pants bodice piece attachment	5.1 5.2 5.3	Back bodice piece preparation procedure followed, method and technique applied according to pants specifications Front and back bodice piece opening confirmed according to pants design Side seams and in seams closing procedure
					5.4	followed, method and technique applied according to pants specifications Label specifications and sewing position determined according to
					5.5 5.6	pants specifications Taping (if applicable) folder at sewing machine operated according to machine specifications Attached pants appearance confirmed
						according to job specifications

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			6. Carry out pants bottom hemming	 6.1 Pants bottom hemming procedure followed, method and technique applied according to pants specifications 6.2 Bottom pants bodice folded accurately according to pants specifications 6.3 Folded bottom interlocking/ blind stitching applied according to sewing technique, materials and machine specifications 6.4 Finished bottom hem measurement tolerance confirmed within range according to job order and apparel specifications 6.5 Bottom hem finished appearance confirmed according to job specifications 6.6 Bottom hem defects visually checked, category identified and attached pants panels discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
9. Skirt Bodice Panel Attachment	TA-020- 2:2014- C09	Skirt Bodice Panel Attachment competency unit specifies the competency in sewing skirt bodices piece in accordance with job specifications and Standard Operating Procedure (SOP).This competency is part of skirt making process. The person who is competent in skirt bodice panel attachment should be able to comprehend the skirt design, specifications, skirt bodice attachment procedure, method, technique and Standard Operating Procedure (SOP). She/he should be able to check skirt bodice attachment requirements, prepare skirt bodice attachment requirements, attach skirt front and back bodice piece, carry out skirt creative artwork and decoration and check skirt bodice output. The outcome of this competency is to ensure the front and back skirt bodice pieces are assembled and sewn as per requirements and designs.	 Check skirt bodice attachment requirements 	 1.1 Job order information identified according to production schedule 1.2 Job specifications interpreted according to job order and production approved sample 1.3 Skirt measuring data reviewed according to measuring manual 1.4 Materials specifications identified according to job specifications 1.5 Defects on materials identified according to quality standards 1.6 Sewing method and technique identified according to job specifications, machine operating manual, and production approved sample 1.7 Skirt specifications identified according to apparel design and fabric type
			2. Prepare skirt bodice attachment requirements	 2.1 Personal hygiene and health requirements practised and Personal Protective and Equipment (PPE) utilized according to company policy, safety and ergonomic deportment requirements 2.2 Work station/machine setting confirmed and

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 chairs positions adjusted according to work flow and ergonomic deportment requirements 2.3 Sewing machine components and functions setting confirmed and thread tension adjusted according to machine specifications and
				 production specifications requirements 2.4 Sewing tools and equipment functions ensured and organised according to work flow and safety requirements
				2.5 Decoration specifications identified according to measuring manual and skirt design
				2.6 Art specifications confirmed according to production approved sample
				2.7 Seam allowances determined according to skirt parts specifications
				2.8 Materials arranged on workstation according to work flow and Standard
			 Attach skirt front and back bodice piece 	Operating Procedure 3.1 Skirt front and back bodice piece preparation procedure followed, method and technique applied according to skirt

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			4. Carry out skirt creative artwork and decoration	 specifications 3.2 Front and back bodice piece measurement confirmed according to skirt design 3.3 Gather/darts/pleats placement and measurement confirmed and sewn according to skirt design and sewing technique 3.4 Side seams closing procedure followed, method and technique applied according to skirt specifications 3.5 Bottom hemming/over locking applied according to job specifications 3.6 Label and sewing position determined according to pants specifications 4.1 Creative artwork and decoration measurement determined according to skirt specifications 4.2 Artwork and decoration requirements confirmed according to production approved sample 4.3 Skirt creative artwork and decoration procedure followed, method and technique applied according to skirt specifications

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				4.4 Decorative materials placement and alignment on marking confirmed and sewn according to sewing technique and skirt design
			5. Check skirt bodice output	 5.1 Skirt finished appearance confirmed according to job specifications 5.2 Measurement tolerance confirmed within range according to skirt specifications 5.3 Skirt defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements
10. Apparel Accessories Sewing Operation	TA-020- 2:2014- C10	Apparel Accessories Sewing Operation competency unit specifies the competency in creating and sewing suitable accessories/fasteners such as waistband, zippers, buttons and eyelet on apparel bodice pieces in accordance with job specifications and Standard Operating Procedure (SOP). The person who is competent in apparel accessories sewing operation should be able to comprehend the accessories design, specifications, apparel accessories sewing	 Prepare apparel accessories sewing operation requirements 	 1.1 Work area, personal hygiene, health and safety confirmed according to Occupational Safety and Health requirements 1.2 Job order information identified according to production schedule 1.3 Job specifications interpreted according to job order and production approved sample

CU Title	CU Code	CU Descriptor	CU Work Activities		Performance Criteria
CU Title		CU Descriptor technique and Standard Operating Procedure (SOP). She/he should be able to prepare apparel accessories sewing operation requirements, create waistband, attach zipper, create button hole, attach button, create eyelet hole and attach eyelet. The outcome of this competency is to ensure the apparel accessories such as waistband, zippers, buttons and eyelet are created, attached and sewn as per requirements, sewing technique and designs.	CU Work Activities	1.4 1.5 2.1 2.2	Performance Criteria Materials specifications identified according to job order Defect on materials identified according to quality standards Waistband specifications identified and confirmed according to job order Sewing machine, parts, tools and equipment setting confirmed and thread tension adjusted according to machine specifications, sewing method
				2.32.42.52.6	and safety requirements Readymade waistband prepared (unfold/unroll) and organised according to waistband specifications and job order Waistband preparation and attachment procedure followed, method and technique applied according to waistband specifications Sample of waistband sewn for testing according to fabric type, waist size and sewing technique Waistband edge joint and top stitching applied according to machine specifications

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 2.7 Completed waistband appearance and size/ measurement accuracy confirmed according to waistband specifications 2.8 Waistband defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements
			3. Attach zipper	 3.1 Zipper specifications confirmed and selected according to job order and apparel design 3.2 Sewing machine, parts, tools and equipment setting confirmed, functions tested and thread tension adjusted according to machine specifications, sewing method and safety requirements 3.3 Variety types of zip foot selected according to fabric type and apparel specifications 3.4 Zipper attachment procedure followed, method and technique applied according to job

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 specifications 3.5 Zipper appearance, functionality and placement accuracy confirmed according to job specifications 3.6 Attached Zipper defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements
			4. Create button hole	 4.1 Button specifications confirmed according to job order 4.2 Button hole specifications confirmed according to job order 4.3 Button hole machine, parts, tools and equipment setting confirmed and functions tested according to machine specifications, button hole specifications and safety requirements 4.4 Marking of hole gap at machine ensured according to button gap measurement 4.5 Button hole machine operated according to

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 machine manuals and Standard Operating Procedure 4.6 Button hole appearance confirmed according to job specifications 4.7 Button hole defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements
			5. Attach button	 5.1 Button specifications confirmed according to job specifications 5.2 Button hole specifications confirmed according to job specifications 5.3 Button machine, parts, tools and equipment setting confirmed, functions tested and thread tension adjusted according to machine specifications, sewing method and safety requirements 5.4 Button place marking accuracy and alignment of hole at button confirmed according to button sewing method

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 5.5 Button machine operated according to machine operation manuals and Standard Operating Procedure 5.6 Button appearance, functionality and placement accuracy confirmed according to machine and button specifications 5.7 Button defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements
			6. Create eyelet hole	 6.1 Eyelet specifications confirmed according to job order 6.2 Eyelet hole specifications confirmed according to job specifications 6.3 Eyelet hole machine, parts, tools and equipment setting confirmed and functions tested according to machine specifications, eyelet hole specifications and safety requirements

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 6.4 Marking of hole gap at machine ensured according to eyelet gap measurement 6.5 Eyelet hole machine operated according to machine operation manuals and Standard Operating Procedure 6.6 Eyelet hole appearance confirmed according to job specifications 6.7 Eyelet hole defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements
			7. Attach eyelet	 7.1 Eyelet specifications confirmed according to job order 7.2 Eyelet machine, parts, tools and equipment setting confirmed and functions tested according to machine specifications, eyelet specifications and safety requirements 7.3 Eyelet base/washer and ring specifications confirmed and selected according to job

specifications 7.4 Eyelet base/washer positioning and setting confirmed according to eyelet machine specifications 7.5 Eyelet machine specifications 7.5 Eyelet machine operated according to machine operation manuals and Standard Operating Procedure 7.6 Eyelet appearance, functionality and placement accuracy confirmed according to job specifications 7.7 Attached eyelet defects visually checked, category identified and discrepancies/ defects reported to superior for	CU Title CU	CU Descriptor	CU Work Activities	Performance Criteria
further action(repair/rework) according to Standard Operating Procedure and Quality Standard requirements				 specifications 7.4 Eyelet base/washer positioning and setting confirmed according to eyelet machine specifications 7.5 Eyelet machine operated according to machine operation manuals and Standard Operating Procedure 7.6 Eyelet appearance, functionality and placement accuracy confirmed according to job specifications 7.7 Attached eyelet defects visually checked, category identified and discrepancies/ defects reported to superior for further action(repair/rework) according to Standard Operating Procedure and Quality Standard

CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	& APPAREL				
SUB SECTOR		APPARE	L MANUFACTURING				
JOB AREA		MASS PF	RODUCTION (SEWING SI	ECTION)			
NOSS TITLE		SEWING	OPERATION				
COMPETENCY UNI	TTITLE	SEWING	AREA HEALTH, SAFETY	AND ENVIRONMEN		NCE PRACTICE	S
LEARNING OUTCO	ME	 The person who is competent in this of condition ensure all machineries and to safety and environmental requirements. Prepare housekeeping and prevent Check sewing workplace condition Carry out work area housekeeping Practise health, safety and environm Upkeep work area after operation 		ools are functioning and Upon completion of the tive maintenance requi	d safe to be us is competency rements	sed and personne	el adhere to health,
PRE-REQUISITE (if applicable)							
		TA-020 2014-0		TRAINING DURATION	40 hours	SKILL CREDIT	4.0
Work Activities	Related Know	wledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
1. Prepare housekeeping and preventive maintenance requirements		etails such on ries o schedule eping and re ince	 i. Determine sewing operation production details ii. Determine sewing areas/location iii. Determine sewing machines types iv. Check work instructions v. Arrange tools, equipment and materials for housekeeping and 	Attitude:i. Always adhere to work organizationii. Having clear objectives and understand instructions on housekeeping and preventive maintenance activitiesiii. Resourceful in	Related Knowledge 2 <u>Related</u> <u>Skill</u> 4	Related Knowledge Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	 i. Sewing operation production details listed ii. Sewing areas/ location specified according to production schedule iii. Sewing machines types listed

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 ii. Sewing areas/location such as: Sewing floor/lines/room Sewing workstation/tables Sample room iii. Sewing machines types such as: Lockstitch Overlock Cover stitch Interlock Button hole Button nole Button sewing Snap button Eyelet hole Button sewing Bartack Zig-zag/ Embroidery sewing Chain stitch iv. Work instructions such as: Lint, dust and trash removal Hook of lockstitch machines blown off Machines lubrication: Oil level in the machines Oil is not contaminated 	preventive maintenance vi. Determine relevant documents in sewing operation for references or to be completed vii. Identify regulatory/statutory bodies	locating tools, equipment and materials <u>Attitude:</u> i. Wear Personal Protective Equipment (PPE) when handling job			and functions described according to production requirements iv. Work instructions defined v. Tools, equipment and materials for housekeeping and preventive maintenance organised according to work instructions vi. Relevant documents in sewing operation for references or to be completed explained vii. Regulatory/ statutory bodies listed

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Sewing machine needle inspection signs of wear or damage Machine systems: Thread handling Feed system Materials trimming Folders and guides Tools, equipment and materials for housekeeping and preventive maintenance such as: Vacuum Blower Soft bristle brush Magnet Bar Cloth Personal Protective Equipment (PPE) vi. Relevant documents in sewing operation for references or to be completed such as: Job order: schedule maintenance, area/location /line to be maintained 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Standard Operating Procedure (SOP) Machines manuals Sewing machine Industrial Sewing Machine Safety Rules and Regulations Housekeeping and preventive maintenance records: Checklist Log book Preventive maintenance flow chart Kegulatory/statutory bodies such as: Department of Safety and Health (DOSH) - Occupational Health, Safety and Environmental Acts Department of Environments (DOE) SIRIM Quality Standards Authorised bodies Local Council Third party provider (Insurance) 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
2. Check sewing workplace condition	 i. Health, Safety and Environment requirements such as: Personal Protective Equipment (PPE) (gloves, mask, safety boots, goggles, earplug, apron) Workplace and personal safety Housekeeping ii. Sewing operation process such as: Pocket attachment Placket attachment Collar Creation Sleeves Attachment Bodice attachment Embroideries sewing iii. Work area condition requirements such as: Clean environment Conducive atmosphere (air ventilation, lights) Tidy arrangement Electric cable properly tied and covered Work organization method such as"5S": Sort (Tidiness) Set In Order 	 i. Interpret Health, Safety and Environment requirements ii. Determine sewing operation process iii. Determine work area condition requirements iv. List elements to be inspected v. Check paper/cloth for checking oil leaking conditions vi. Identify various types of fabric vii. Determine types of garment viii. Determine stitching requirements ix. Test sewing machine components setting and functions x. Check material handling components condition and function xi. Interpret Machine Operation Manual xii. Identify type of malfunction/ irregularities matters xiv. Document sewing workplace condition results 	 <u>Attitude:</u> Always having alert mind when checking workplace condition Particular on signs and symptoms of irregularities on machineries Adhere to quality standards requirements Adhere to quality standards requirements Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> Wear PPE during operations Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designated area <u>Environmental:</u> Hazardous chemical kept in ventilated room/area 	Related <u>Knowledge</u> 1 <u>Related</u> <u>Skill</u> 3		 i. Health, Safety and Environment requirements defined ii. Sewing operation process differentiated iii. Work area condition requirements categorised iv. Work organization method such as "5S" listed and purpose defined v. Elements to be inspected specified vi. Oil leak checking method applied vii. Various types of fabric listed according to garment specifications /iii. Types of garments categorized ix. Stitching requirements such as needle

Work Activities Rel	ated Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
v. Ele insi • • •	(Orderliness) Shine (Cleanliness) Standardize (Standardization) Sustain (Discipline) ments to be bected such as: Sewing machine types and functions Sewing tools and equipment Cleanliness and tidiness Oil leaking Dust /foreign materials such as: O broken needles Excess fabrics/thread Significant aspects of sewing: Thread tension and consumption Presser foot displacement and compressing force needle penetration force measurement per/cloth for		ii. Adhere to environmental procedures when handling hazardous chemical/additive materials			specifications selection and sewing thread characteristic described according to garment specifications x. Sewing machine components setting and functions checking demonstrated according to Machine Operating Manual xi. Types of malfunction/ irregularities matters listed and described xii. Sewing workplace condition results recorded according to documentation procedure

Work Activities Related	I Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 checkin conditio vii. Various such as Fab. Sati Cott Line viii. Types of as: Shir dres Pan Skiri ix. Stitching such as Nee spect sele o ix. Stere o 	g oil leak ons types of fabrics er n ton of garment such ts, blouses, sses ts/Trouser ts g requirements	Related Skills		Hours		

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Related Knowledge x. Sewing machine components setting and functions such as: • Driving mechanism • bobbin cases • rotary hooks/shuttles • Threading mechanism • Material handling components: • materials presser foot • needle plate, • feed dog xi. Machine Operation Manual xii. Types of malfunction/ irregularities matters: • Broken • Wear and tear • Missing xiii. Sewing workplace condition results to be	Related Skills				
	 documented and reported: Equipment and tools used for preventive maintenance status Sewing machine condition and functions Type of malfunction/ irregularities 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
3. Carry out work area housekeeping and preventive maintenance	 Related Knowledge Documentation procedure i. Housekeeping and preventive maintenance schedule such as: Before operation During operation break time After operation During oil leaking conditions ii. Paper/cloth for checking oil leaking conditions iii. Work area housekeeping procedure: Cleaning Waste disposal iv. Machineries preventive maintenance procedure such as: Cleaning Waste disposal iv. Machineries preventive maintenance procedure such as: Cleaning (oil/dust/foreign materials) Waste disposal Broken parts replacement with superior consent v. Action to be taken on damaged parts: Replacement Reported to superior for further 	 Related Skills i. Determine housekeeping and preventive maintenance schedule ii. Dispose paper/cloth for checking oil leaking conditions iii. Execute work area housekeeping iv. Execute machineries preventive maintenance v. Execute action to be taken on damaged parts vi. Keep used tools, equipment and materials after housekeeping and maintenance vii. Apply relevant procedures in preventive maintenance 		Hours Related A Related Skill 14	Related KnowledgeLecture Question and Answer Group DiscussionRelated Skill Demonstration	

w	ork Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
		 vi. Designated location/area for keeping housekeeping and preventive maintenance tools, equipment and materials vii. Relevant procedures in housekeeping and preventive maintenance: Cleaning procedure Disposal procedure Reporting procedure: o Verbally o Written (form/check sheet/ log book) viii. Company policy 		<u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials dust/foreign materials			procedures in preventive maintenance defined and followed according to company policy vii. Work area , personal hygiene, Health, Safety, Environments (HSE) requirements and good housekeeping practised at all time
:	Practise health, safety and environment requirements	 i. Occupational Safety, Health and Environment requirements such as: Personal health and safety: Personal health and safety: Ergonomic Wear Personal Protective Equipment Machine safety components availability such as: needle guard bands for sharp 	 i. Determine Occupational Safety, Health and Environment requirements ii. Follow band specifications to attach sharp tools iii. Identify Machineries parts under safety precaution iv. Interpret sewing machine and electrical equipment safety instructions v. Adhere to company 	 <u>Attitude:</u> Always cautious with irregularity on machineries during operations Focus on safety guidelines during sewing activities Pro active in responding to any incidents or accidents at work place 	Related Knowledge 1 <u>Related</u> <u>Skill</u> 4	Related Knowledge Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 i. Occupational Safety, Health and Environment requirements listed and utilization of PPE demonstrated ii. Band specifications to attach sharp tools specified iii. Machineries parts under

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	tools (tweezers, scissors) belts and wheels Electric cables properly tied and covered ii. Band specifications to attach sharp tools such as: Elastic/Non-elastic Length iii. Machineries parts under safety precaution such as : Pedal and knee lifter Electrical components iv. Handling procedure on utilization of sharp sewing tools v. Sewing machine and electrical equipment safety instructions such as: Such as: Electrical equipment switched off Keep drinks water away from area – preventing electric shocks/	health, safety and environmental Procedure	 <u>Safety:</u> Adhere to safety rules and regulations Follow handling procedure on utilization of sharp sewing tools Always practice good housekeeping inclusive personal hygiene <u>Environmental:</u> Adhere to environmental requirements 			safety precaution defined ii. Utilization of sharp sewing tools demonstrated according to safety requirements iii. Sewing machine and electrical equipment safety instructions followed according to company safety procedure

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	damage to machine vi. Company health, safety and environmental procedure such as: • Display safety guidelines at machine • Safety signage labels • Emergency action flow charts			Deleted	Delated	
5. Upkeep work area after operation	 i. Designated storage area/place for storing/keeping : Used tool, equipment and materials Unused/balance of sewing balance materials (threads, tape, accessories) ii. Handling procedures of damaged parts and waste materials such as: Damaged parts: Repack, labelled and keep Return controlled items to superior/store 	 i. Locate designated storage area/place for storing/keeping ii. Repack/label/keep damaged parts and waste materials iii. Return controlled damaged parts to superior/store iv. Determine waste category v. Place Oil leaking paper/cloth on needle plate vi. Update superior on work area and machineries status after operation 	 <u>Attitude:</u> Thorough in up keeping work station Adhere to quality standards requirements Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> Adhere to safety rules and regulations Follow handling procedures of damaged parts and waste materials 	Related Knowledge	Related Knowledge Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 i. Designated storage area/place for storing/keepin g specified ii. Damaged parts and waste materials handling procedure demonstrated iii. Waste category categorised iv. Oil leak checking method applied according to maintenance requirements v. Work area

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Waste: Labelled, recycled/ disposed Waste category such as: General/ consumable items industrial (scheduled/ hazardous) iv. Oil leak checking method: Placement cloth/paper on needle plate after working hours Visual check at machine components v. Work area and machineries status after operation vi. Organization Chart/Hierarchy vii. Standard Operating Procedure					and machineries status (condition and functions) informed to superior according to Standard Operating Procedure and Organization Chart/ Hierarchy vi. Work area, personal hygiene, Health, Safety, Environments (HSE) requirements and good housekeeping practised at all time

Employability Skills

Core Abilities	Social Skills			
 01.01 Identify and gather information 01.02 Document information, procedures or processes 01.04 Analyze information 01.06 Utilize word processor to process information 02.01 Interpret and follow manuals, instructions and SOP's 02.03 Communicate clearly 02.04 Prepare brief reports and checklists using standard forms 03.01 Apply cultural requirements to the workplace 03.02 Demonstrate integrity and apply ethical practices 03.03 Accept responsibility for own work and work area 03.05 Demonstrate safety skills 03.06 Respond appropriately to people and situations 04.01 Organize own work activities 04.02 Set and revise own objectives and goals 04.03 Organize and maintain own workplace 04.05 Demonstrate initiative and flexibility 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork 			

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Sample of sewing operation documentations (Job order sheet, Standard Operating Procedure (SOP), production schedule, maintenance schedule, audit schedule, work instructions, housekeeping/preventive maintenance records, safety procedures) 	1:1
 Work station/table with adjustable chairs Various types of sewing machine (Lockstitch, Overlock, Cover stitch, Interlock, Button hole, Buttoning ,Snap button, Eyelet hole,Button sewing, Bartack, Chain stitch, Zig-zag/ Embroidery sewing, etc) 	1:5 1:5
4. Sewing machine component (needles, threads stands, bobbin, bobbin case, machine safety devices (needle guard, wheel/belt cover))	1:5
 Sample of Machine Operation Manual Tools, equipment and materials for housekeeping/ preventive maintenance (paper/cloth,vacuum, blower, soft bristle brush, magnet 	1:25 1:25

 bar, oil for machines,etc) 7. Personal Protective Equipment (safety mask, glove, goggle, hair cover/cap, apron, ear plug, etc) 8. Sample of garment (shirts, blouses, dresses, pants, skirts) 9. Sample of fabrics 10. Sewing materials (threads, tape, interlining,etc) 11. Sewing tools (tweezers, scissors/shears, measuring tape) and equipment (iron/ ironing table/hot press) 12. Quality Standards references, manuals and procedures 	1:1 1:25 As per required As per required 1:25 1:1
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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR TEXTILE & APPAREL									
SUB SECTOR		APPARE	LM	ANUFACTU	RING				
JOB AREA		MASS PF	ROD	OUCTION (SE	WING	SECTION)			
NOSS TITLE		SEWING	OP	ERATION					
COMPETENCY UNIT	T TITLE	APPARE	LP	OCKET ATT	ACHMI	ENT			
LEARNING OUTCOME pieces as per r Operating Proce • Check pock • Prepare poc • Fold pocket • Carry out fro • Create appa				requirements cedure (SOP). ket attachmen ocket attachme	and de Upon c t require ent requ ece mar pening	esigns in accordanc completion of this con ements irements	e with specific	ations, sewing to	ich and sew pocket cut echnique and Standard ble to:-
PRE-REQUISITE (i	if applicable)	C01							
COMPETENCY UNIT	ΓID	TA-020-2 :2014-C02	2	LEVEL	2	TRAINING DURATION	80 hours	SKILL CREDIT	8.0
Work Activities	Related Kno	wledge		Related Skil	lls	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Check pocket attachment requirements 	 i. Job order inf such as: Delivery Quantity Batch nu Colour Special requirem accessor (zipper, b eyelet) 	date mber ents – ies	iii.	Identify job or information Interpret job specifications Determine po measuring da from buyer measuring ma Check produc approved App sample	cket ita anual ction	Attitude: i. Thorough in interpreting and inquisitive in clarifying job specifications ii. Detailed in checking pocket attachment	Related Knowledge 2	Related Knowledge Lecture Question and Answer	 i. Job order information specified ii. Job specifications listed iii. Pocket measuring data listed iv. Production approved apparel sample specified v. Materials

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	o Jacket	 v. Identify materials specifications vi. Identify defects on materials vii. Interpret pocket specifications /iii. Determine pockets attachment procedure, method and technique 	requirements	Related Skill 6	Related Skill Demonstration Observation	specifications specified vi. Defects on materials categorised vii. Pocket specifications specified /iii. Pockets creation and attachment procedure, method and technique described according to apparel type

 Thread specifications Sizeriticket number Length Colour Labels Size (S.M.L,XL /1,2,3,4) Brand Washable/non-washable Country origin code vi. Defects on materials such as: Fabric/materials Knots Double thick or thin yarns Fabric/materials Loom Start Marks Fabric Moire Solied filling Corrugation Dy spots, streaks or smears Knitted in, foreign or coloured thread (off colour fly) Snags, pulls in fabric 	Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
fabric • Colour		 Thread specifications Size/ticket number Length Colour Labels Size (S,M,L,XL /1,2,3,4) Brand Washable/non-washable Country origin code Verstand Washable/non-washable Country origin code Defects on materials such as: Fabric/materials Knots Double thick or thin yarns Picks and holes Loom Start Marks Fabric Moire Soiled filling Corrugation Dye spots, streaks or smears Knitted in, foreign or coloured thread (off colour fly) 	Related Skills				Assessment Criteria
panel		fabric Colour Shade to shade 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Wash/Finish Outside of Approved Shade band Dirt/Oil Strong smell due to wash finish and/or residue Non-removable stain Removable stain Removable stain Pocket specifications such as: Types : Patch Side Welt Dimension Length Width Opening Measurement tolerance (+/-) Colours Interlining/ interfacing Yiii. Pockets creation and attachment procedure, method and technique Patching Inset (set-in) Cut-through 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
2. Prepare pocket attachment requirements	Ergonomic deportment:	 i. Check work area, personal hygiene, health and safety requirements ii. Check work station/machine table and sewing tools setting iii. Adjust chair height and distance from working table iv. Identify types of sewing machine v. Identify types of machine component vi. Check machine specifications and functions setting vii. Identify types of sewing tools and equipment viii. Select materials for pocket creation and attachment ix. Arrange materials on work station 	 <u>Attitude:</u> Resourceful in identifying tools, and materials ii. Adhere to work organization method and work procedure <u>Safety:</u> Sharp tools such as scissors, tweezer always tied up to work station and needles kept in place Always work in proper lighting at workstation Adhere to safety requirements at all time <u>Environmental:</u> Adhere to environmental procedures when handling 	Related Knowledge	Related Knowledge Lecture Question and Answer Related Skill Demonstration Observation	 i. Work area, personal hygiene, health and safety requirements specified and safety practices demonstrated ii. Work station/ machine table and sewing tools setting specified according to work flow iii. Chair height and distance from working table adjusted according to ergonomic deportment requirements iv. Types of sewing machine and components listed v. Machine specifications and functions setting described vi. Types of sewing tools and equipment listed and functions described vii. Materials for pocket creation and attachment selected according to pocket specifications

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	ii. Work station/ machine		hazardous			viii. Pocket materials
	setting :		chemical/			inclusive cut
	 Arrangement 		additive			pieces
	 Condition 		materials			arrangement on
	 Height 					work station demonstrated
	iii. Adjustable chairs for					according to
	personnel sitting					Standard
	positions:					Operating
	 height 					Procedure
	distance from					
	workstation					
	back seats support					
	iv. Types of sewing machine such as:					
	Lockstitch Single needle					
	 Single needle Double needle 					
	Over lock					
	v. Types of machine					
	component such as:					
	Needles					
	Threads stands					
	Bobbin					
	Bobbin case					
	Machine safety					
	devices (needle					
	guard, wheel/					
	belt cover)					
	vi. Machine specifications					
	and functions setting					
	such as:					
	 Thread tension 					
	Production					
	specifications					
	requirements such					
	as:					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Stitch per inch (SPI) Speed Types of sewing tools and equipment such as: Tweezers Scissors/shears Measuring marking device/tape Equipment: Steam press Iron Ironing table viii. Selection of materials for pocket creation and attachment such as : Fabrics (cut pieces) Threads Interlining Marker (special pen for fabric, chalk) Soft paper ix. Materials arrangement on workstation x. Standard Operating Procedure 					
3. Fold pocket cut piece	 i. Pocket specifications such as: Type Shape Size Pocket cut piece folding method and technique: Fabric and soft 	 i. Determine pocket specifications ii. Attach fabric and soft paper in sequence iii. Place pocket sample cardboard on pocket cut piece iv. Align pocket 	<u>Attitude:</u> i. Focus in handling job ii. Follow direction folded edge pocket cut piece on sample	<u>Related</u> <u>Knowledge</u> 6	<u>Related</u> <u>Knowledge</u> Lecture Question and Answer Group Discussion	 i. Pocket specifications specified ii. Fabric and soft paper attachment demonstrated iii. Pocket sample cardboard placement on

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	accuracy of pocket	opening with fabric edge v. Assure folding direction of pocket cut piece on sample cardboard vi. Press folded edge vii. Utilise sewing tools and equipment /iii. Control pressing temperature ix. Check pocket shape and appearance output x. Execute corrective action on misshape pocket cut piece	 cardboard iii. Apply both hands in a flexible manner during process of folding iv. Adhere to quality standards requirements v. Always practice good housekeeping inclusive personal hygiene Safety: Wear PPE during operation Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area Adhere to safety requirements in handling hot/sharp 	Related Skill 14		 pocket cut piece demonstrated iv. Pocket opening with fabric edge alignment demonstrated v. Folding direction of pocket cut piece on sample cardboard followed vi. Folded edge pressing demonstrated vii. Utilization of sewing tools and equipment demonstrated viii. Pressing temperature adjusted according temperature specifications ix. Folded fabric shape appearance output explained according to pocket specifications , quality standard requirements x. Corrective actions on misshape pocket cut piece demonstrated xi. Work area , personal hygiene, Health, Safety, Environment

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	place • Neatness viii. Corrective action on misshape pocket cut piece : • Adjustment • Re-Iron (manually/ automatically)		items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			(HSE) requirements and good housekeeping practised at all time
4. Carry out front bodice piece marking	 i. Type of front bodice piece fabric ii. Marking position iii. Confirmation on pocket hole alignment iv. Pocket marking procedure: Position of front bodice piece on sewing table with correct side up Align pocket hole position and Mark pocket position v. Bodice marking method such as: Cardboard/pocket shape hole at cardboard 	 i. Identify type of front bodice piece fabric ii. Determine marking positions iii. Align pocket hole position iv. Mark pocket position on front bodice piece v. Employ bodice marking method vi. Utilize marking materials, sewing tools and equipment vii. Check pocket marking output 	Attitude:i.Precise in marking pocket positionii.Always check on marking materialsiii.Always check on marking materialsiii.Apply both hands in a flexible manner during process of markingiv.Follow pocket marking procedurev.Adhere to quality standards	Related Knowledge 2 <u>Related</u> <u>Skill</u> 6	Related Knowledge Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 i. Type of front bodice piece fabric listed ii. Marking positions specified iii. Pocket hole position alignment checked iv. Pocket position of front bodice piece marking demonstrated according to marking method v. Marking materials selected according to fabric type vi. Utilization of marking materials, sewing

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Marking point at machine Computerised Vi. Marking materials such as : Fabric marker/special washable ink marker Chalk Top stitch Vii. Sewing tools and equipment handling technique Viii. Marking appearance and defect checking method ix. Pocket marking output 		 requirements vi. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> Wear PPE during operation Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area ii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions 			tools and equipment demonstrated vii. Pocket marking output explained according to pocket specifications and quality standard requirements viii. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all time

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	 i. Pocket opening design and specifications such as: Type (side, welt) Length Width Fabric texture ii. Pocket bag and front Apparel panel positions and alignment accuracy iii. Pocket flaps/cover creation procedure, method and technique iv. Position of pocket 	 Related Skills i. Determine pocket opening design and specifications ii. Check pocket bag and front apparel panel positions and alignment accuracy iii. Check position of pocket opening iv. Check pocket opening measurement v. Create pocket opening vi. Attach pocket bag 	-	•		 Assessment Criteria Pocket opening design and specifications specified Pocket bag and front apparel panel positions visually checked and alignment accuracy measured Position of pocket opening described Pocket opening measurement
	v. Pocket opening measurement vi. Pocket opening cutting method	 vii. Utilise sewing tools and equipment viii. Check pocket opening and pocket bag appearance 	iii. Adhere to quality standards requirements			demonstrated v. Pocket opening cutting demonstrated according to
	 vii. Pocket bag attachment method: Top stitching Reverse stitching viii. Sewing tools and equipment handling technique ix. Pocket opening 	 ix. Report findings of defect/defective x. Execute corrective action on misshape pocket opening and attached pocket bag 	iv. Always practice good housekeeping inclusive personal hygiene			vi. Pocket bag attachment demonstrated according to pocket bag attachment

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 appearance and defect checking method x. Pocket opening and pocket bag appearance output: Measurement accuracy Folded edge in place xi. Corrective action on misshape pocket opening and pocket bag : Adjustment Re-Iron (manually/ automatically) 		 <u>Safety:</u> Wear PPE during operation Sharp tools such as cutting tools and hazardous chemical always kept in safe place/ designated area Adhere to safety requirements in handling hot/sharp items Follow electrical components safety instructions Environmental: Adhere to environmental procedures when handling hazardous materials 			 method vii. Utilization of marking materials, sewing tools and equipment demonstrated xii. Apparel pocket opening appearance explained according to pocket specifications, quality standard requirements viii. Misshape pocket opening and pocket bag altered according to quality standards requirements ix. Work area, personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all time

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
6. Sew attached pocket cut piece	 i. Types of pocket such as: Patch Side Welt ii. Types of accessories to be attached on pocket such as: Zipper Buttons Eyelet and hook Velcro Self fabric flaps/cover iii. Placement and direction of folded edge pocket iv. Sewing direction on front bodice fabric v. Semi-finished pocket sewing procedure, method and technique vi. Sewing tools and equipment handling technique vii. Completed pocket appearance and defect checking method viii. Pocket finished appearance such as: Neatly slashed/trimmed and unsightly threads removed Cut opening dimension as per 	 i. Determine types of pocket ii. Determine types of accessories to be attached on pocket iii. Check placement and direction of folded edge pocket iv. Check sewing direction v. Sew semi-finished pocket cut piece vi. Utilise sewing tools and equipment vii. Check pocket finished appearance viii. Detect type of defective stitching ix. Categorise defects, causes and sewing assembly defects details x. Report discrepancies /defects findings to superior 	 <u>Attitude:</u> Concentrate on sewing path and position Apply both hands during process of sewing Apply correct coordination between eyes and left –right hand motion Both hands and fingers must be flexible when operating tiny parts Adhere to quality standards requirements Adhere to quality standards requirements Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> Wear PPE during operation Sharp tools such as cutting tools 	Related 5 <u>Related</u> <u>Skill</u> 11	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	 i. Types of pocket listed according to apparel specifications ii. Types of accessories to be attached on pocket listed and functions described iii. Placement and direction of folded edge pocket described iv. Sewing direction described v. Semi-finished pocket cut piece sewing demonstrated according to sewing method and technique vi. Utilization of sewing tools and equipment demonstrated vii. Completed pocket finished appearance and discrepancies/def ects findings reported according to pocket specifications , quality standard requirements and

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 specifications No foreign materials from fabric Type of defective stitching such as: Puckering (ugly wrinkles) Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip) X. Defect category and causes such as: Machine Materials Human Method xi. Sewing/assembly defects details: Stitching/Seams: Tight or loose tension, skipped or broken stitches affecting serviceability/ durability Needle cut, nick, needle pull or visible abrasion caused by needles Broken stitch 		and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			 procedure /iii. Type of defective stitching listed and causes specified according to quality standards requirements ix. Pocket sewing defects categorised and details listed according to quality standards references, manuals and procedures x. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all time

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	in seam or decorative stitching Measurement exceeding +- tolerance ix. Discrepancies /defects findings reporting procedure and method: Verbally Written X. Quality standards requirements such as: Concept of "right the first time" /No defects/ defective Measurement accuracy XI. Quality standard references, manuals and procedures such as: Visual Defect Reference Guide Apparel Defect Classification Manual Job specifications Accessories card/buyer special requirements manual Defects work repair/rework procedure					

Employability Skills

Core Abilities	Social Skills
 01.01 Identify and gather information 01.02 Document information, procedures or processes 01.04 Analyze information 01.06 Utilize word processor to process information 02.01 Interpret and follow manuals, instructions and SOP's 02.03 Communicate clearly 02.04 Prepare brief reports and checklists using standard forms 03.01 Apply cultural requirements to the workplace 03.02 Demonstrate integrity and apply ethical practices 03.03 Accept responsibility for own work and work area 03.05 Demonstrate safety skills 03.06 Respond appropriately to people and situations 04.01 Organize own work activities 04.02 Set and revise own objectives and goals 04.03 Organize and maintain own workplace 04.05 Demonstrate initiative and flexibility 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Sample of company documentation procedure (Job order sheet, Job specifications sheet, Standard Operating Procedure, measuring manual) Quality Standard reference, manuals and procedures (Visual Defect Reference Guide, Apparel Defect Classification Manual, Accessories card/buyer special requirements manual, Defects work repair/rework procedure) 	1:1 1:1
 Production Apparel sample Sample of fabric Sample of pocket cut piece Work station/table with adjustable chairs Sewing machine (single/double needle lockstitch, overlock) 	1:25 As per required As per required 1:5 1:5

8.	Sewing machine component (needles, threads stands, bobbin, bobbin case, machine safety devices (needle guard, wheel/belt cover))	1:5
9.	Sample of machine operating manual	1:25
10.	Sewing materials (interlining, threads, cardboard, soft paper, pen fabric/marker)	As per required
11.	Dummy model	1:25
12.	Sewing tools (tweezers, scissors, measuring tape/marking device)	1:1
13.	Equipment (hot press/iron/iron table)	1:5
14.	Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc)	1:1

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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE & APPAREL							
SUB SECTOR		APPARE		UFACTURI	NG				
JOB AREA		MASS PF	RODUC	TION (SEW	ING SE	ECTION)			
NOSS TITLE		SEWING	OPER/	ATION					
COMPETENCY UNI	Y UNIT TITLE APPAREL PLACKET ATTACHMENT								
LEARNING OUTCOME		pieces on sewing teo will be able • Check • Prepar • Reinfo • Attach	 Prepare placket attachment requirements Reinforce placket fabric 						
PRE-REQUISITE (if applicable)	C01							
COMPETENCY UNI	TID	TA-020 :2014-C		LEVEL	2	TRAINING DURATION	80 hours	SKILL CREDIT	8.0
Work Activities	Related Know	wledge	F	Related Skill	S	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Check placket attachment requirements 	 i. Job order inf such as: Delivery Quantity Batch nu Colour Special requirem (zipper, b eyelet) 	date mber ents	info ii. Inte spe iii. Det mea buy mai iv. Che app	ntify job orde ormation erpret job ecifications termine plack asuring data yer measurin nual eck productio proved appar nple	ket from g on	<u>Attitude:</u> i. Thorough in interpreting and inquisitive in clarifying job specifications ii. Detailed in checking placket attachment	<u>Related</u> <u>Knowledge</u> 2	Related Knowledge Lecture Question and Answer	 i. Job order information specified ii. Job specifications listed iii. Placket measuring data from buyer measuring

Work Activities Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 ii. Job specifications such as: Apparel type: Shirt Blouse Jacket Mans dress Size Alphabets (S,M,L,XL) Number (1,2,3,4) Buyer code Style Sketch Measurement method iii. Placket measuring data from buyer measuring manual iv. Production approved apparel sample Materials specifications: Fabric type French terry taffeta single jersey cotton woven Fabric texture Light Heavy Smooth Coarse Colour shading 	 v. Identify materials specifications vi. Identify defects on materials vii. Identify sewing method and technique /iii. Determine placket specifications 	requirements	Related Skill 6	Related Skill Demonstration Observation	manual listed iv. Production approved apparel sample specified v. Materials specifications specified vi. Defects on materials categorised vii. Placket specifications specified viii. Sewing method and technique described according to apparel type

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Thread					
	specifications					
	 Size/ticket 					
	number					
	o Length					
	o Colour					
	Labels Size (SML XL					
	 Size (S,M,L,XL /1,2,3,4) 					
	• Brand					
	o Washable/non-					
	washable					
	 Country origin 					
	code					
	vi. Defects on materials					
	such as:					
	Fabric/materials					
	 Knots Double thick or 					
	 Double thick or thin yarns 					
	 Picks and holes 					
	 Loom Start 					
	Marks					
	o Fabric Moire					
	 Soiled filling 					
	 Corrugation 					
	 Dye spots, 					
	streaks or					
	smears					
	 Knitted in, foreign or 					
	coloured thread					
	(off colour fly)					
	(
	 Snags, pulls in 					
	fabric					
	Colour					
	o Shade to shade					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 panel Wash/Finish Outside of Approved Shade band Dirt/Oil Strong smell due to wash finish and/or residue Non-removable stain Removable stain Vii. Sewing method and technique Viii. Placket specifications such as: Users gender Female Male Types continuous bound bound faced hemmed bound bound faced hemmed bound bound bound faced hemmed continuous bound bo			nours	Mode	
L		03			1	1

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/	Training	Delivery	Assessment
2. Prepare placket attachment requirements	 i. Work area, personal hygiene, health and safety requirements such as: Workplace cleanliness and tidiness Personal appearances Neat hairstyle/ covered Body parts clean and tidy Without jewellery Company uniform/dress code policy Ergonomic deportment; 	 i. Check work area, personal hygiene, health and safety requirements ii. Check work station/machine table and sewing tools setting iii. Adjust chair height and distance from working table iv. Identify types of sewing machine v. Identify types of machine component vi. Check machine specifications and functions setting vii. Identify types of sewing tools and equipment viii. Select materials for placket creation and attachment ix. Arrange cut pieces on work station 	Environmental <u>Attitude:</u> i. Resourceful in identifying tools, and materials ii. Adhere to work organization method and work procedure <u>Safety:</u> i. Sharp tools such as scissors, tweezer always tied up to work station and needles kept in place ii. Always work in proper lighting at workstation <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous chemical/addit ive materials	Hours <u>Related</u> 4 <u>Related</u> <u>Skill</u> 8	Mode Related Knowledge Lecture Question and Answer Related Skill Demonstration Observation	 Criteria Work area, personal hygiene, health and safety requirements specified and safety practices demonstrated Work station/ machine table and sewing tools setting specified according to work flow Chair height and distance from working table adjusted according to ergonomic deportment requirements Types of sewing machine and components listed Machine specifications and functions setting described Types of sewing tools and

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 ii. Work station/ machine setting : Arrangement Condition Height iii. Adjustable chairs for personnel sitting positions: Height Distance from workstation Back seats support iv. Types of sewing machine such as: Lockstitch Single needle Over lock v. Types of machine component such as: Needles Threads stands Bobbin Bobbin case Machine safety devices (needle guard, wheel/belt cover) vi. Machine specifications and functions setting such as: Thread tension Production specifications requirements such as: 					equipment listed and functions described vii. Materials for placket creation and attachment selected according to placket specifications viii. Placket materials inclusive cut pieces arrangement on work station demonstrated according to Standard Operating Procedure

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Stitch per inch (SPI) Speed Types of sewing tools and equipment such as: Tweezers Scissors/shears Measuring marking device/tape Equipment: Steam press Iron Ironing table Viii. Selection of materials for placket creation and attachment such as : Fabrics (cut pieces) Threads Interlining Marker (special pen for fabric, chalk) ix. Materials arrangement on workstation x. Standard Operating Procedure 					
3. Reinforce placket fabric	 i. Placket specifications Placket fabric Type Texture ii. Reinforcement materials specifications: Type Hard fabric Interlining 	 i. Check placket specifications ii. Check reinforcement materials specifications iii. Reinforce placket fabric iv. Utilise sewing tools and equipment v. Check placket shape 	 <u>Attitude:</u> Be accurate in placing interlining to fabric Apply both hands during in a flexible manner process of 	<u>Related</u> <u>Knowledge</u> 5	Related Knowledge Lecture Question and Answer Group Discussion	 Placket specifications specified Reinforcement materials specifications specified according to fabric type Placket fabric

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	(Fusible /infusible) • Dimension • Texture iii. Reinforcement method: • Fusing (hot press/iron) • Sewn iv. Sewing tools and equipment handling technique v. Reinforced fabric appearance and defect checking method: • Visual • Measure • Fit on model/ mannequin vi. Placket shape and condition appearance: • Shape in place • Measurement as per specifications	and condition appearance	reinforcement iii. Adhere to quality standards requirements iv. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> i. Wear PPE during operation ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions	Related Skill 11	Related Skill	reinforcement demonstrated iv. Utilization of sewing tools and equipment demonstrated v. Placket shape and condition appearance explained according to placket specifications and quality standard requirements vi. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all time

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Attach placket to bodice piece 	i. Front bodice piece design such as:	i. Determine front bodice piece design	<u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials <u>Attitude:</u> i. Be accurate in	Related Knowledge	Related Knowledge	i. Front bodice piece design
	 separated piece or single combined piece ii. Front bodice marking method iii. Sewing marking position iv. Placement method of semi-finish placket on the front bodice v. Placket attachment technique vi. Sewing tools and equipment handling technique vii. Placket attachment appearance and defect checking method viii. Semi finished placket measurement tolerance 	 ii. Determine marking positions iii. Mark placket sewing position iv. Place semi-finish placket on the front bodice v. Execute placket attachment vi. Utilise sewing tools and equipment vii. Check attached placket appearance 	 placing folded placket to the marking points ii. Apply both hands in a flexible manner during process of sewing v. Adhere to quality standards requirements vi. Always practice good housekeeping inclusive personal hygiene 	6 <u>Related</u> <u>Skill</u> 14	Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 described ii. Marking positions specified iii. Placket sewing position marking demonstrated iv. Semi-finish placket placement on the front bodice demonstrated v. Placket attached according to technique vi. Utilization of sewing tools and
			<u>Safety:</u> i. Wear PPE during			equipment demonstrated vii. Attached

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			 operation ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials 			placket appearance explained according to placket specifications and quality standards requirements /iii. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all time
5. Sew attached placket	 Sewing position of semi-finished placket (at the centre of marked position) Placket edge triangle 	 Sewing position of semi-finished placket Form placket edge triangle Fold placket panel 	<u>Attitude:</u> i. Concentrate on sewing path and position	<u>Related</u> <u>Knowledge</u> 8	<u>Related</u> <u>Knowledge</u> Lecture Question and	i. Sewing position of semi-finished placket specified

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Slit measurement at bodice neck Snipping and stitching of the bodice neck corner Placket panel folding technique (folded inside the front bodice piece and interfolded) 	 iv. Sew attached placket v. Check placket finished appearance vi. Utilise sewing tools and equipment vii. Detect type of defective stitching viii. Categorise defects, causes and sewing assembly defects details ix. Report discrepancies /defects findings to superior 	 ii. Apply both hands during in a flexible manner process of sewing iii. Apply correct coordination between eyes and left –right hand motion iv. Adhere to quality standards requirements v. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> i. Wear PPE during operation ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to 	Related Skill 16		 ii. Placket edge triangle forming demonstrated iii. Placket panel folding demonstrated according to folding technique iv. Attached placket sewing demonstrated according to sewing method and technique v. Utilization of sewing tools and equipment demonstrated vi. Placket finished appearance explained according to pocket specifications and quality standards requirements vii. Type of defective stitching listed and causes specified according to

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 wrinkles) Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip) ix. Defect category such as: Machine Materials Human Method X. Type of sewing/ assembly defects: Stitching/seams: Tight or loose tension, skipped or broken stitches affecting serviceability/ durability Needle cut, nick, needle pull or visible abrasion caused by needles Foreign objects embedded in seams Broken stitch in seam or decorative stitching 		safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			quality standards requirements /iii. Placket sewing defects categorised and details listed according to quality standards references, manuals and procedures ix. Placket discrepancies /defects findings reported to superior for further action according to reporting procedure and quality standard requirements X. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Any dropped stitch in a non- locking seam Two or more consecutive skipped stitches on a seaming or joining lock stitch Measurement exceeding +- tolerance Discrepancies /defects findings reporting procedure and method: Verbally Written Quality standards requirements such as: Concept of "right the first time" /No defects/ defective Measurement accuracy Yuitten Voulity standards Concept of "right the first time" /No defects/ defective Measurement accuracy Quality standard references, manuals and procedures such as: Visual Defect Reference Guide Apparel Defect Classification Manual 		Environmental	Hours	Mode	time
	Job specificationsAccessories					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	card/buyer special requirements manual • Defects work repair/rework procedure					

Employability Skills

Core Abilities	Social Skills
 01.01 Identify and gather information 01.02 Document information, procedures or processes 01.04 Analyze information 01.06 Utilize word processor to process information 02.01 Interpret and follow manuals, instructions and SOP's 02.03 Communicate clearly 02.04 Prepare brief reports and checklists using standard forms 03.01 Apply cultural requirements to the workplace 03.02 Demonstrate integrity and apply ethical practices 03.03 Accept responsibility for own work and work area 03.05 Demonstrate safety skills 03.06 Respond appropriately to people and situations 04.01 Organize own work activities 04.02 Set and revise own objectives and goals 04.03 Organize and maintain own workplace 04.05 Demonstrate initiative and flexibility 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Sample of company documentation procedure (Job order sheet, Job specifications sheet, Standard Operating Procedure, measuring manual ,defects work repair/rework procedure) Quality Standard references and manuals (Visual Defect Reference Guide, Apparel Defect Classification Manual, Accessories card/buyer special requirements manual) 	1:1 1:1
 Production apparel sample Sample of fabric Sample of placket cut piece Work station/table with adjustable chairs Sewing machine (lockstitch, overlock) Sewing machine component (needles, threads stands, bobbin, bobbin case, Machine safety devices (needle guard, wheel/belt cover)) Sample of machine operating manual Sewing materials (interlining, threads,etc) Dummy model Sewing tools (tweezers, scissors, measuring tape/marking device) Equipment (hot press/iron/ironing table) Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc) 	1:25 As per required As per required 1:5 1:5 1:5 1:25 As per required 1:25 1:1

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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	& APPAREL					
SUB SECTOR		APPARE	APPAREL MANUFACTURING					
JOB AREA		MASS PF	RODUCTION (SEW	ING SEC	CTION)			
NOSS TITLE		SEWING	OPERATION					
COMPETENCY UNIT	T TITLE	APPARE	L SHOULDER , SL	EEVES	AND SIDE SEAM	ATTACHMEN	NT	
LEARNING OUTCO	ME	 The person who is competent in this competency unit shall be able to join and sew the front and be pieces and sleeves cut pieces as per requirements and designs in accordance with specification shoulder sewing technique and Standard Operating Procedure (SOP). Upon completion of this competerainees will be able to:- Prepare shoulder, sleeve and side seam attachment requirements Carry out shoulder attachment Carry out sleeve and side seam attachment Check shoulder, sleeve and side seam output 			cifications, garment			
PRE-REQUISITE (if applicable)	C01						
	ΓID	TA-020 2014-C		2	TRAINING DURATION	80 hours	SKILL CREDIT	8.0
Work Activities	Related Kno	wledge	Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Prepare shoulder, sleeve and side seam attachment requirements 	 i. Work area, p hygiene, hea safety require such as: Workplac cleanlines tidiness Personal appearan Neat cover Body clean Witho 	th and ements e ss and ces nairstyle/ ed parts and tidy	 i. Check work area personal hygiene health and safety requirements ii. Identify job order information iii. Interpret job specification iv. Check production approved appare sample v. Identify materials specification vi. Identify defects or 	, i. ; ; ; ; ; ;	checking product specification	Related Knowledge 2 <u>Related</u> <u>Skill</u> 6	Related Knowledge Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	 Work area, personal hygiene, health and safety requirements specified and safety practices demonstrated Job order information specified Job

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 uniform/dress code policy Utilization of Personal Protective Equipment (PPE): safety mask glove (for white fabric covered low- heeled shoes Safety glasses Ergonomic deportment: Right body posture (sitting position) kept securely Proper body posture when 	materials vii. Identify sewing method and technique viii. Check work station/machine table and sewing tools setting ix. Adjust chair height and distance from working table x. Identify types of sewing machine xi. Identify types of machine component xii. Check machine specification and functions setting kiii. Identify types of sewing tools and equipment tiv. Arrange cut pieces on work station	 iv. Adhere to work organization method and work procedure <u>Safety:</u> ii. Wear PPE during operation iii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designated area iv. Adhere to safety requirements in handling hot/sharp items <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials 			specification listed iv. Production approved apparel sample specified v. Materials specification specified vi. Defects on materials categorised vii. Sewing method and technique described according to apparel specification /iii. Work station/ machine table and sewing tools setting specified according to work flow ix. Chair height and distance from working table adjusted according to ergonomic deportment requirements x. Types of sewing machine and

Work Activities Rel	ated Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
v. Mai v. Mai v. Mai vi. Def	 Shirt Blouse Jacket Size Alphabets (S,M,L,XL) Number (1,2,3,4) Buyer code Style Sketch Measurement method duction approved barel sample terials specification: Fabric type French terry taffeta single jersey cotton woven Fabric texture Light Heavy Smooth coarse) Colour shading Thread specification size/ticket number, length, colour ects on materials ch as: Fabric/materials 					components listed xi. Machine specification and functions setting described xii. Types of sewing tools and equipment listed and functions described xiii. Materials inclusive cut pieces arrangement on work station demonstrated according to Standard Operating Procedure

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	o Knots					
	 Double thick or 					
	thin yarns					
	 Picks and holes 					
	 Loom Start 					
	Marks					
	 Fabric Moire 					
	 Soiled filling 					
	o Corrugation					
	o Dye spots,					
	streaks or					
	smears					
	o Knitted in,					
	foreign or					
	coloured thread					
	(off colour fly)					
	 Snags, pulls in 					
	fabric					
	Colour					
	 Shade to shade 					
	panel					
	o Wash/Finish					
	Outside of					
	Approved					
	Shade band					
	Dirt/Oil					
	 Strong smell 					
	due to wash					
	finish and/or					
	residue					
	o Non-removable					
	stain					
	o Removable					
	stain					
	vii. Sewing method and					
	technique					
	viii. Work station/ machine					
	setting :					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Arrangement Condition Height ix. Adjustable chairs for personnel sitting positions: Height Distance from workstation Back seats support X. Types of sewing machine such as: Lockstitch Single needle Over lock xi. Types of machine component such as: Needles Threads stands Bobbin Bobbin case Machine safety devices (needle guard, wheel/ belt cover) xii. Machine specification and functions setting such as: Thread tension Production specification 	Related Skills				
	requirements such as: o Stitch per inch (SPI)					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Speed xiii. Types of sewing tools and equipment such as: Tweezers Scissors/shears Measuring marking device/tape Equipment: Hot press Iron Kiv. Materials, shoulder /sleeve cut piece arrangement 					
2. Carry out shoulder attachment	 i. Shoulder measuring data from buyer measuring manual ii. Shoulder design and specification such as: Type Shape Size iii. Utilization of shoulder reinforcement materials if applicable: Types (stay tape/twill tape) Elastic/non-elastic iv. Back bodices pieces specification: One piece Back piece with yoke V. Yoke and back piece attachment procedure, 	 i. Determine shoulder measuring data from buyer measuring manual ii. Check shoulder design and specification iii. Utilize shoulder reinforcement materials iv. Check back bodices pieces specification v. Attach yoke and back piece ix. Check upper front bodies on upper back bodice piece placement and alignment accuracy x. Utilise sewing tools and equipment vi. Sew shoulder joints 	Attitude:i.Focused in handling jobii.Apply both hands in a flexible manner during process of attachmentiii.Adhere to shoulder attachment procedureiv.Adhere to quality standards requirementsv.Always practice good housekeeping inclusive personal hygiene	Related Knowledge 2 <u>Related</u> <u>Skill</u> 6	Related Knowledge Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	 i. Shoulder measuring data listed ii. Shoulder design and specification specified Utilization of shoulder reinforcement materials demonstrated iii. Back bodices pieces specification specified iv. Yoke and back piece attachment demonstrated xi. Upper front bodies on

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 method and technique: Place back piece between top and under yoke Shape (pleats) on back piece in line with notch mark Stitch yokes and back piece together Turn yokes up along stitch line Vi. Upper front bodies on upper back bodice piece placement and alignment accuracy Vii. Sewing tools and equipment handling technique /iii. Shoulder sewing procedure, method and technique 		 i. Wear PPE during operations ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designated area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous chemical/additive materials 			upper back bodice piece placement and alignment accuracy checking demonstrated according to checking method xii. Shoulder joints sewing demonstrated according to sewing method and technique xiii. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all time
3. Carry out sleeve and side seam attachment	 i. Sleeve and side seam measuring data from buyer measuring manual ii. Front and back bodice alignment iii. Side vent length 	 Determine sleeve and side seam measuring data from buyer measuring manual Check front and back bodice alignment 	<u>Attitude:</u> i. Focused in handling job ii. Apply both hands in a flexible manner during process of	<u>Related</u> <u>Knowledge</u> 14	<u>Related</u> <u>Knowledge</u> Lecture Question and Answer Group	 i. Sleeve and side seam measuring data specified ii. Front and back bodice aligned

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	measurement and marking method iv. Accuracy of both sides side vent length v. Sleeve cut piece placement on bodice piece and sewing position vi. Sleeve sewing method and technique vii. Sewing tools and equipment handling technique	 iii. Measure and mark side vent iii. Check accuracy of both sides side vent length iv. Determine sleeve cut piece placement on bodice piece and sewing position v. Attach sleeve cut piece vi. Utilise sewing tools and equipment vii. Sew attached sleeve 	 attachment iii. Adhere to sleeve and side seam attachment procedure iv. Adhere to quality standards requirements v. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> Wear PPE during operations Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designated area Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions 	Related Skill 34	Discussion <u>Related Skill</u> Demonstration Observation	 iii. Side vent measurement and marking demonstrated iv. Accuracy checking of both sides side vent length demonstrated according to checking method v. Sleeve cut piece placement on bodice piece demonstrated vi. Sleeve attachment demonstrated according to sewing method and technique vii. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all time

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	 i. Shoulder, sleeve and side seam finished appearance and defect checking methods such as: Visual Measure Fit on model/mannequin ii. Shoulder, sleeve and side seam finished appearance such as: Neatly slashed/trimmed and unsightly 	 Related Skills Check shoulder, sleeve and side seam finished appearance and defect Check discrepancies in measurement Detect type of defective stitching Categorise defects, causes and sewing assembly defects details Report discrepancies /defects findings to superior 			-	
	 threads removed Right and left bodice of joint shoulder dimension accuracy No foreign materials from fabric Discrepancies in measurement Type of defective stitching such as: Puckering (ugly wrinkles) Wobbling stitch 		 <u>Safety:</u> i. Wear PPE during operations ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designated area iii. Adhere to safety requirements in handling 			 quality standards requirements iii. Pocket sewing defects categorised and details listed according to quality standards references, manuals and procedures iv. Discrepancies /defects

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 (irregular stitching) Stitch skipping (stitches sometimes skip) V. Defect category such as: Machine Materials Human Method Vi. Types of sewing/assembly defects: Stitching/Seams Tight or loose tension, skipped or broken stitches affecting serviceability/ durability Needle cut, nick, needle pull or visible abrasion caused by needles Foreign objects embedded in seams Broken stitch in seam or decorative stitching Any dropped stitch in a non- 		hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			findings reported to superior for further action according to reporting procedure and quality standard requirements V. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all time

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Iocking seam Two or more consecutive skipped stitches on a seaming or joining lock stitch Measurement exceeding +- tolerance Discrepancies /defects findings reporting procedure and method: Verbally Written Quality standards requirements such as: Concept of "right the first time" /No defects/ defective Measurement accuracy Quality standards requirements such as: Concept of "right the first time" /No defects/ defective Measurement accuracy Quality standard references, manuals and procedures such as: Visual Defect Reference Guide Apparel Defect Classification Manual Job specifications Accessories card/buyer special requirements manual 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Defects work repair/rework procedure 					

Employability Skills

Core Abilities	Social Skills
 01.01 Identify and gather information 01.02 Document information, procedures or processes 01.04 Analyze information 01.06 Utilize word processor to process information 02.01 Interpret and follow manuals, instructions and SOP's 02.03 Communicate clearly 02.04 Prepare brief reports and checklists using standard forms 03.01 Apply cultural requirements to the workplace 03.02 Demonstrate integrity and apply ethical practices 03.03 Accept responsibility for own work and work area 03.06 Respond appropriately to people and situations 04.01 Organize own work activities 04.02 Set and revise own objectives and goals 04.03 Organize and maintain own workplace 04.05 Demonstrate initiative and flexibility 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Sample of company documentation procedure (Job order sheet, Job specification sheet, Standard Operating Procedure, measuring manual) Quality Standard reference, manuals and procedures (Visual Defect Reference Guide, Apparel Defect Classification Manual, Accessories card/buyer special requirements manual, Defects work repair/rework procedure) 	1:1 1:1

3. Production apparel sample	1:25
4. Sample of fabric	As per required
5. Sample of parts section (front and bodice cut piece, yoke, sleeve)	As per required
6. Work station/table with adjustable chairs	1:5
7. Sewing machine (lockstitch, overlock)	1:5
8. Sewing machine component (needles, threads stands, bobbin, bobbin	1:5
case, Machine safety devices (needle guard, wheel/belt cover))	
9. Sample of machine operating manual	1:25
10. Sewing materials (interlining, threads, twill tape, etc)	As per required
11. Dummy model	1:25
12. Sewing tools (tweezers, scissors, measuring tape/marking device)	1:1
13. Equipment (hot press/iron/ironing table)	1:5
14. Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc)	1:1

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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	& APPAREL					
SUB SECTOR	JB SECTOR APPAREL MANUFACTURING							
JOB AREA		MASS P	RODUCTION (SEWIN	G SI	ECTION)			
NOSS TITLE		SEWING	OPERATION					
COMPETENCY UNIT	T TITLE	COLLAR	AND SLEEVE CUFF	CR	EATION			
LEARNING OUTCOME Cuff as po Operating • Prepa • Carry • Carry		e person who is competent in this competency unit shall be able to create and sew apparel collar and sleeve f as per requirements and designs in accordance with specifications, collar sewing technique and Standard erating Procedure (SOP). Upon completion of this competency unit, trainees will be able to:- Prepare collar and sleeve cuff creation requirements Carry out collar creation Cary out sleeve cuff creation Check collar and sleeve cuff output						
PRE-REQUISITE (if applicable)	C01						
	ΓID	TA-020 2014-0		2	TRAINING DURATION	40 hours	SKILL CREDIT	4.0
Work Activities	Related Know	wledge	Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Prepare collar and sleeve cuff creation requirements 	covera o Body clean o Witho jewella • Company	lth and ements ces nairstyle/ ed parts and tidy ut ery	 i. Check work area, personal hygiene, health and safety requirements ii. Identify job order information iii. Interpret job specifications iv. Check production approved apparel sample v. Identify materials specifications vi. Identify defects on materials 		Attitude:i.Thorough in interpreting and inquisitive in clarifying job orderii.Detailed in checking product specificationsiii.Resourceful in locating and arranging tools, equipment and materials	Related Knowledge 1 <u>Related</u> <u>Skill</u> 3	Related <u>Knowledge</u> Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	 Work area, personal hygiene, health and safety requirements specified and safety practices demonstrated Job order information specified Job specifications

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Personal Protective Equipment (PPE): safety mask glove (for white fabric covered low- heeled shoes Safety glasses Ergonomic deportment: Right body posture (sitting position) kept securely Proper body posture when lifting heavy 	 vii. Identify sewing method and technique viii. Check work station/machine table and sewing tools setting ix. Adjust chair height and distance from working table x. Identify types of sewing machine xi. Identify types of machine component xii. Check machine specifications and functions setting xiii. Identify types of sewing tools and equipment xiv. Arrange cut pieces on work station 	 iv. Adhere to work organization method and work procedure <u>Safety:</u> i. Wear PPE during preparation sewing requirements ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designate d area iii. Adhere to safety requirements in handling hot items <u>Environmental:</u> ii. Adhere to environmental procedures when handling hazardous materials 			 listed iv. Production approved apparel sample specified v. Materials specifications specified vi. Defects on materials categorised vii. Sewing method and technique described according to apparel specifications viii. Work station/ machine table and sewing tools setting specified according to work flow ix. Chair height and distance from working table adjusted according to ergonomic deportment requirements x. Types of sewing machine and components

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Dress Size Alphabets (S,M,L,XL) Number (1,2,3,4) Buyer code Style Sketch Measurement method iv. Production approved apparel sample v. Materials specifications: Fabric type French terry taffeta single jersey cotton woven Fabric texture Light Heavy Smooth coarse) Colour shading Thread specifications size/ticket number, colour vi. Defects on materials such as: Fabric/materials Knots					listed xi. Machine specifications and functions setting described xii. Types of sewing tools and equipment listed and functions described kiii. Materials inclusive cut pieces arrangement on work station demonstrated according to Standard Operating Procedure

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Double thick or 					
	thin yarns					
	 Picks and holes 					
	 Loom Start 					
	Marks					
	 Fabric Moire 					
	o Soiled filling					
	o Corrugation					
	 Dye spots, 					
	streaks or					
	smears					
	 Knitted in, foreign or 					
	foreign or coloured thread					
	(off colour fly)					
	 Snags, pulls in 					
	fabric					
	Colour					
	 Shade to shade 					
	panel					
	o Wash/Finish					
	Outside of					
	Approved					
	Shade band					
	Dirt/Oil					
	 Strong smell 					
	due to wash					
	finish and/or					
	residue					
	o Non-removable					
	stain					
	o Removable					
	stain					
	ii. Sewing method and					
.	technique					
//	iii. Work station/ machine					
	setting :					
	 Arrangement 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	 Condition Height ix. Adjustable chairs for personnel sitting positions: height distance from workstation back seats support Types of sewing machine such as: Lockstitch Single needle Double needle Over lock Types of machine component such as: Needles Threads stands Bobbin Bobbin case Machine specifications and functions setting such as: Thread tension Production specifications requirements such as: 	Related Skills				
	 Stitch per inch (SPI) Speed 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
2. Carry out collar	 tiii. Types of sewing tools and equipment such as: Tweezers Scissors Measuring marking device/tape Equipment: Steam press Iron Ironing table tiv. Materials inclusive collar/ sleeve cuff cut piece arrangement 	i. Determine collar	Attitude:	Related	Related	i. Sleeve and
2. Carry out collar creation	 i. Collar specifications/ measuring data from buyer measuring manual such as: Types Stand Rolled Flat Convertible/ Leisure Wing shirt Construction Two-piece One-piece Direction Length, Width, Thickness, Colour ii. Reinforcement materials specifications such as: 	 Determine collar specifications/ measuring data from buyer measuring manual Determine reinforcement materials specifications Fuse/sew collar interlining Utilise sewing tools and equipment Execute collar creation process Check shape and condition of reinforced collar fabric Check collar fabric and interlining materials measurement and alignment 	 <u>Attitude:</u> Focused in handling job Apply both hands in a flexible manner during collar creation Adhere to collar creation procedure iV. Adhere to quality standards requirements V. Always practice good housekeeping inclusive personal hygiene 	Related Knowledge 3 <u>Related</u> <u>Skill</u> 7	Related Knowledge Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 Sleeve and side seam measuring data specified Reinforceme nt materials specifications specified Sleeve cuff interlining fusing/sewing demonstrated Utilization of sewing tools and equipment demonstrated Sleeve cuff creation demonstrated according to procedure,

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Fusible/ infusible, Hard fabric/ interlining Dimension, Texture Collar fabric reinforcement (interlining) method such as: Fusing (hot press/iron) Sewing Collar creation procedure, method and technique such as: Fuse collar interlining / sew interlining on fabric Hem top collar Run stitch collar Trim and notch collar Crease collar Topstitch collar Topstitch collar Quilt collar stand Sewing tools and equipment handling technique Vi. Shape and condition of reinforced collar fabric check method Collar fabric and interlining materials measurement and alignment 		 <u>Safety:</u> Wear PPE during operations Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designate d area iii. Adhere to safety requirements in handling hot items iv. Follow electrical components safety instructions <u>Environmental:</u> Adhere to environmental procedures when handling hazardous chemical/additi ve materials 			 method and technique vi. Shape and condition of reinforced sleeve cuff fabric checking demonstrated vii. Sleeve cuff fabric and interlining materials measurement and alignment checking demonstrated according to checking method ii. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
iii. iv. v. vi.	specifications / measuring data . Reinforcement materials specifications such as: • Fusible/ infusible, • Hard fabric/ interlining • Dimension, • Texture . Cuff fabric reinforcement (interlining) method such as: • fusing with hot press/ iron • Sewing • Sleeve cuff creation procedure such as: • Fuse/sew cuff interlining • Hem top cuffs • Run stitch cuff • Trim cuffs • Turn and crease cuff • Topstitch cuff • Topstitch cuff • Shape and condition of reinforced cuff fabric check method • Sewing tools and equipment handling technique	 i. Determine sleeve cuff specifications/ measuring data from buyer measuring manual ii. Determine reinforcement materials specifications ii. Fuse/sew sleeve cuff interlining v. Execute sleeve cuff creation v. Check shape and condition of reinforced sleeve cuff fabric <i>v</i>i. Utilise sewing tools and equipment ii. Check sleeve cuff fabric and interlining materials measurement and alignment 	Attitude:i.Focused in handling jobii.Apply both hands in a flexible manner during sleeve cuff creationiii.Adhere to sleeve cuff creation procedureiv.Adhere to quality standards requirementsv.Always practice good housekeeping inclusive personal hygieneSafety:i.i.Wear PPE during operationsii.Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designate d areaiii.Adhere to	Related Knowledge 5 <u>Related</u> Skill 11	Related Knowledge Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 i. Sleeve and side seam measuring data specified ii. Reinforcement materials specifications specified iii. Sleeve cuff interlining fusing/sewing demonstrated iv. Utilization of sewing tools and equipment demonstrated v. Sleeve cuff creation demonstrated according to procedure, method and technique vi. Shape and condition of reinforced sleeve cuff fabric checking demonstrated vi. Sleeve cuff fabric checking demonstrated vi. Sleeve cuff fabric checking materials measurement and alignment checking

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	iii. Cuff fabric and interlining materials measurement and alignment		safety requirements in handling hot items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous chemical/additi ve materials			demonstrated according to method /iii. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times
4. Check collar and sleeve cuff output	 i. Collar/sleeve cuff finished appearance and defect checking method such as: Visual Measure Fit on model/ mannequin ii. Collar/sleeve cuff finished appearance such as: Neatly slashed/trimmed and unsightly threads removed Collar/sleeve cuff dimension (shape in place, 	 i. Check collar/sleeve cuff finished appearance and defect ii. Check discrepancies in measurement iii. Detect type of defective stitching iv. Categorise defects, causes and sewing assembly defects details 	Attitude:i.Precise in measuring partsii.Details and thorough in inspecting cut materialsiii.Adhere to quality standards requirementsiv.Always practice good housekeeping inclusive personal hygiene	Related Knowledge 3 <u>Related</u> <u>Skill</u> 7	Related Knowledge Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 i. Collar/ sleeve cuff finished appearance and defect explained according to job specifications ii. Type of defective stitching listed and causes specified according to quality standards requirements iii. Collar/sleeve

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 measurement within tolerance) Collar/sleeve opening dimension accuracy (height, centre) iii. Discrepancies in measurement iv. Type of defective stitching such as: Puckering (ugly wrinkles) Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip) V. Defect category such as: Machine Materials Human Method Vi. Type of sewing/ assembly defects: Stitching/Seams Tight or loose tension, skipped or broken stitches affecting serviceability/ durability Needle cut, nick, needle pull or visible 		 <u>Safety</u>: i. Adhere to safety requirements during appearance and defect checking <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous chemical/additi ve materials 			cuff sewing defects categorised and details listed according to quality standards references, manuals and procedures iv. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

abrasion caused by needles o Foreign objects embedded in seams o Broken stitch in seam or decorative stitching o Any dropped stitch in a non- locking seam o Two or more consecutive skipped stitches on a o seaming or joining lock stitch • Measurement exceeding + toteirance vii. Quality standards requirements such as: • Concept of "right the first time" /No defects/ defective • Measurement accuracy viii. Quality standard references, manuals and procedures such as: • Visual Defect Reference Guide	Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Apparel Defect		 caused by needles Foreign objects embedded in seams Broken stitch in seam or decorative stitching Any dropped stitch in a non- locking seam Two or more consecutive skipped stitches on a seaming or joining lock stitch Measurement exceeding +- tolerance Quality standards requirements such as: Concept of "right the first time" /No defects/ defective Measurement accuracy Quality standard references, manuals and procedures such as: Visual Defect Reference Guide 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Classification Manual Job specifications Accessories card/buyer special requirements manual Defects work repair/rework procedure					

Employability Skills

Core Abilities	Social Skills
 01.01 Identify and gather information 01.02 Document information, procedures or processes 01.04 Analyze information 01.06 Utilize word processor to process information 02.01 Interpret and follow manuals, instructions and SOP's 02.03 Communicate clearly 02.04 Prepare brief reports and checklists using standard forms 03.01 Apply cultural requirements to the workplace 03.02 Demonstrate integrity and apply ethical practices 03.03 Accept responsibility for own work and work area 03.06 Respond appropriately to people and situations 04.01 Organize own work activities 04.02 Set and revise own objectives and goals 04.03 Organize and maintain own workplace 04.05 Demonstrate initiative and flexibility 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Sample of company documentation procedure (Job order sheet, Job specifications sheet, Standard Operating Procedure, measuring manual) Quality Standard reference, manuals and procedures (Visual Defect Reference Guide, Apparel Defect Classification Manual, Accessories card/buyer special requirements manual, Defects work repair/rework procedure) 	1:1 1:1
 Production apparel sample Sample fabric Sample parts section (collar, sleeve cuff) Work station/table with adjustable chairs Sewing machine (lockstitch, overlock) Sewing machine component (needles, threads stands, bobbin, bobbin case, Machine safety devices (needle guard, wheel/belt cover)) Sample of machine operating manual Sewing materials (interlining, threads, twill tape,etc) Dummy model Sewing tools (tweezers, scissors, measuring tape/marking device) Equipment (hot press/iron) Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc) 	1:25 As per required As per required 1:5 1:5 1:5 1:25 As per required 1:25 1:1 1:5 1:1

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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	& APF	PAREL					
SUB SECTOR		APPARE	L MAN	IUFACTURIN	G				
JOB AREA		MASS PF	RODUC	CTION (SEWI	NG SI	ECTION)			
NOSS TITLE		SEWING	OPER	ATION					
COMPETENCY UNIT	T TITLE	COLLAR	, SLEE		ND LA	BEL SEWING OP	ERATION		
LEARNING OUTCO	ME	 The person who is competent in this competency unit shall be able to assemble, attach and sew col cuff and label as per requirements and designs in accordance with specifications, sewing tech Standard Operating Procedure (SOP). Upon completion of this competency unit, trainees will be able Prepare sewing area and material requirements Carry out collar and label sewing process Carry out sleeve cuff sewing process Check collar, label and sleeve cuff attachment output 					ving technique and		
PRE-REQUISITE (if applicable)	C01							
	ΓID	TA-020 2014-C		LEVEL	2	TRAINING DURATION	80 hours	SKILL CREDIT	8.0
Work Activities	Related Know	wledge		Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Prepare sewing area and materials requirements 	o Body	th and ements e ss and ces nairstyle/ ed parts and tidy ut	per hea rec info iii. Ide iii. Into spe iv. Ch app sar v. Ide spe vi. Ide	eck work area, rsonal hygiene, alth and safety quirements entify job order ormation erpret job ecifications eck production proved apparel mple entify materials ecifications entify defects or aterials	I	Attitude:i.Thorough in interpreting and inquisitive in clarifying job orderii.Detailed in checking product specificationsiii.Resourceful in locating and arranging tools, equipment	Related Knowledge 2 <u>Related</u> <u>Skill</u> 6	Related Knowledge Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	 Work area, personal hygiene, health and safety requirements specified and safety practices demonstrated Job order information specified Job specifications

Work Activities Related	d Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 unifipolia Ergadep o Utili Perseque o ii. Job ord such as Del Qua Bat Col Spected reque according but iii. Job spected according but 	orm/dress code cy (iii. onomic ortment: Right body posture (sitting position) kept securely Proper body x. posture when lifting heavy xi. materials ization of xii. sonal Protective lipment (PPE): safety mask (iii. glove (for white fabric covered low- heeled shoes Safety glasses ler information	Check work station/machine table and sewing tools setting Adjust chair height and distance from working table Identify types of sewing machine Identify types of machine component Check machine specifications and functions setting Identify types of sewing tools and equipment Arrange cut pieces on work station	and materials iv. Adhere to work organization method and work procedure <u>Safety:</u> i. Wear PPE during preparation sewing requirements ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items <u>Environmental:</u> i. Adhere to environmental procedures when handling			listed iv. Production approved apparel sample specified v. Materials specified vi. Defects on materials categorised vii. Sewing method and technique described according to apparel specifications viii. Work station/ machine table and sewing tools setting specified according to work flow ix. Chair height and distance from working table adjusted according to ergonomic deportment requirements x. Types of sewing machine and components

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Blouse Jacket Size 		hazardous chemical/addit ive materials			listed xi. Machine specifications and functions setting described xii. Types of sewing tools and equipment listed and functions described kiii. Materials inclusive cut pieces arrangement on work station demonstrated according to Standard Operating Procedure

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	o Knots					
	 Double thick or 					
	thin yarns					
	 Picks and holes 					
	 Loom Start 					
	Marks					
	• Fabric Moire					
	 Soiled filling 					
	 Corrugation 					
	 Dye spots, 					
	streaks or					
	smears					
	o Knitted in,					
	foreign or coloured thread					
	(off colour fly)					
	 Snags, pulls in 					
	fabric					
	Colour					
	 Shade to shade 					
	panel					
	o Wash/Finish					
	Outside of					
	Approved					
	Shade band					
	Dirt/Oil					
	 Strong smell 					
	due to wash					
	finish and/or					
	residue					
	 Non-removable 					
	stain					
	o Removable					
	stain					
	vii. Sewing method and					
	technique					
	viii. Work station/ machine					
	setting :					

Work Activities Related K	nowledge Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Arrang Conditi Height ix. Adjustable personnel positions: Height Distand workst: Back s X. Types of s machine s Lockst Sin Do Over lexits, Types of means of the second s	ement ion chairs for sitting ce from ation eats support ewing uch as: titch igle needle uble needle ock nachine t such as: es ds stands n n case ne safety es (needle wheel/ over) pecifications ons setting t tension				
require as:	ements such tch per inch				

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
2 Corrugat coller	 Speed xiii. Types of sewing tools and equipment such as: Tweezers Scissors Measuring marking device/tape Equipment: Hot press Iron Kiv. Materials, shoulder /sleeve cut piece arrangement 	i Dotormino collor				
 Carry out collar and label sewing process 	 i. Collar measuring data from buyer measuring manual ii. Collar design and specifications details such as: Front opening types Plain front Placket Fly Half placket Collar types Stand Flat Rolled Materials (rib/made) Direction Length, Width, Thickness, 	 i. Determine collar measuring data from buyer measuring manual ii. Check collar design and specifications iii. Utilise sewing tools and equipment iv. Execute collar sewing process v. Sew attached semi- placket vi. Check label specifications vii. Check customer requirements on apparel labels /iii. Sew apparel labels 	Attitude:i.Focused in handling jobii.Apply both hands in a flexible manner during collar and label sewing processiii.Adhere to collar and label sewing procedureiv.Adhere to quality standards requirementsv.Always practice good	Related Knowledge 12 <u>Related</u> <u>Skill</u> 28	Related Knowledge Lecture Question and Answer Related Skill Demonstration Observation	 i. Collar measuring data specified ii. Collar design and specifications specified iii. Collar sewing process demonstrated iv. Attached semi-placket sewing demonstrated v. Label specifications specified vi. Customer requirements on apparel labels specified vii. Apparel labels

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Colour Sewing tools and equipment handling technique Collar sewing procedure , method and technique: Place collar onto bodice piece neckline Under collar notch marks match centre bodice balance mark and shoulder notch Lift collar up Wrap hemmed edge of top collar over apparel neckline Stitch parts together Insert apparel label (if applicable) Backstitching at the start and end of stitching row Attached semi-finished placket sewing method and technique Labels specifications such as: Types (printed, in pieces) Quantity Dimension Size 	128	housekeeping inclusive personal hygiene <u>Safety:</u> i. Wear PPE during operations ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling			sewing demonstrated according to sewing method and technique viii. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 vii. Customer requirements on apparel labels such as: Country origin standards Code Functions : Apparel size Fabric specifications/ content and care (heat resistance, type of detergent can be used) Apparel handling instruction Label insertion by sequence/ buyer instructions /iii. Label sewing method and technique 		hazardous chemical/addit ive materials			
3. Carry out sleeve cuff sewing process	 i. Sleeve cuff measuring data from buyer measuring manual such as: ii. Sleeve cuff design and specifications Sleeve opening Continuous strip Sleeve placket Shape Materials (rib/ 	 i. Determine sleeve cuff measuring data from buyer measuring manual ii. Check sleeve cuff design and specifications iii. Determine sleeve and cuff joint position iv. Utilise sewing tools and equipment v. Execute sleeve cuff sewing process 	<u>Attitude:</u> i. Focused in handling job ii. Apply both hands in a flexible manner during sleeve cuff sewing process iii. Adhere to sleeve cuff	<u>Related</u> <u>Knowledge</u> 7 <u>Related</u> <u>Skill</u> 15	Related Knowledge Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	 i. Sleeve cuff measuring data specified ii. Sleeve cuff design and specifications specified iii. Sleeve and cuff joint position specified iv. Sleeve cuff sewing

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 made) Direction Length, Width, Thickness, Colour iii. Sleeve and cuff joint position iv. Sewing tools and equipment handling technique v. Sleeve cuff sewing procedure such as: Mount cuff into gauge, with seam allowance of the top and under cuff folded inwards (if applicable) Sandwich sleeve into cuff Edge stitch cuff and sleeve together, backstitching at the start and end of stitching row ix. Sleeve cuff sewing method and technique 		sewing procedure iv. Adhere to quality standards requirements v. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> i. Wear PPE during operations ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components			process demonstrated v. Attached semi-placket sewing demonstrated according to sewing method and technique vi. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
4. Check collar, label and sleeve cuff attachment output	 i. Collar, label and sleeve cuff finished appearance and defect checking method such as: Visual Measure Fit on model/mannequin ii. Collar, label and sleeve cuff finished appearance such as: Neatly slashed/trimmed and unsightly threads removed Right and left bodice of joint shoulder dimension accuracy No foreign materials from 	 i. Check collar, label and sleeve cuff finished appearance and defect ii. Check discrepancies in measurement iii. Detect type of defective stitching iv. Categorise defects, causes and sewing assembly defects details v. Report discrepancies /defects findings to superior 	safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous chemical/addit ive materials <u>Attitude:</u> i. Precise in measuring parts ii. Details and thorough in inspecting cut materials iii. Adhere to quality standards requirements iv. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> i. Wear PPE during operation	Related Knowledge 3 <u>Related</u> Skill 7	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	 Collar, label and sleeve cuff finished appearance and defect explained according to job specifications Type of defective stitching listed and causes specified according to quality standards requirements Collar, label and sleeve cuff sewing defects categorised

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Labels are located at correct location Labels insecurely attached to apparel Discrepancies in measurement Type of defective stitching such as: Puckering (ugly wrinkles) Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip) V. Defect category such as: Machine Materials Human Method Vi. Type of sewing/assembly defects: Stitching/Seams Tight or loose tension, skipped or broken stitches Tight or loose tension, skipped or broken Method Method Method Method Method 		such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			listed according to quality standards references, manuals and procedures iv. Discrepancies /defects findings reported to superior for further action according to reporting procedure and quality standard requirements v. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	abrasion caused by					
	needles					
	 Foreign 					
	objects					
	embedded in					
	seams					
	 Broken stitch 					
	in seam or decorative					
	stitching					
	 Any dropped 					
	stitch in a non-					
	locking seam					
	o Two or more					
	consecutive					
	skipped					
	stitches on a					
	 seaming or icining lock 					
	joining lock stitch					
	 Measurement 					
	exceeding +-					
	tolerance					
	vii. Discrepancies /defects					
	findings reporting					
	procedure and method:					
	 Verbally 					
	Written					
	iii. Quality standards					
	requirements such as:					
	 Concept of "right 					
	the first time" /No					
	defects/ defective					
	 Measurement 					
	accuracy					
	ix. Quality standard					
	references, manuals					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 and procedures such as: Visual Defect Reference Guide Apparel Defect Classification Manual Accessories card/buyer special requirements manual Defects work repair/rework procedure 					

Employability Skills

Core Abilities	Social Skills
 01.01 Identify and gather information 01.02 Document information, procedures or processes 01.04 Analyze information 01.06 Utilize word processor to process information 02.01 Interpret and follow manuals, instructions and SOP's 02.03 Communicate clearly 02.04 Prepare brief reports and checklists using standard forms 03.01 Apply cultural requirements to the workplace 03.02 Demonstrate integrity and apply ethical practices 03.03 Accept responsibility for own work and work area 03.06 Respond appropriately to people and situations 04.01 Organize own work activities 04.03 Organize and maintain own workplace 04.05 Demonstrate initiative and flexibility 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork
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Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Sample of company documentation procedure (Job order sheet, Job specifications sheet, Standard Operating Procedure, measuring manual) Quality Standard reference, manuals and procedures (Visual Defect Reference Guide, Apparel Defect Classification Manual, Accessories card/buyer special requirements manual, Defects work repair/rework procedure) 	1:1 1:1
 Production apparel sample Sample of fabric Sample of parts section (Collar, label, sleeve cuff) Work station/table with adjustable chairs Sewing machine (lockstitch, overlock) Sewing machine component (needles, threads stands, bobbin, bobbin case, Machine safety devices (needle guard, wheel/belt cover)) Sample of machine operating manual Sewing materials (interlining, threads, etc) Dummy model Sewing tools (tweezers, scissors, measuring tape/marking device) Equipment (hot press/iron) Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc) 	1:25 As per required As per required 1:5 1:5 1:5 1:25 As per required 1:25 1:1

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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	& APF	PAREL					
SUB SECTOR		APPARE	L MAN	IUFACTURIN	G				
JOB AREA		MASS PI	MASS PRODUCTION (SEWING SECTION)						
NOSS TITLE		SEWING	OPER	ATION					
COMPETENCY UNI	TTITLE	BOTTON	BOTTOM AND SLEEVE HEM SEWING						
LEARNING OUTCO	ME	 The person who is competent in this competency unit shall be able to sew bottom and sleeve h sewing technique such as cover stitching as per requirements and designs in accordance with and Standard Operating Procedure (SOP). Upon completion of this competency unit, trainees will Check bottom and sleeve hem sewing requirements Prepare bottom and sleeve hem sewing requirements Sew bottom and sleeve hem Check bottom and sleeve hem output 					with specifications		
PRE-REQUISITE (if applicable)	C01							
COMPETENCY UNI	TID	TA-020 2014-0		LEVEL	2	TRAINING DURATION	40 hours	SKILL CREDIT	4.0
Work Activities	Related Know	wledge		Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Check bottom and sleeve hem sewing requirements 	 i. Job order info such as: Delivery o Quantity Batch nut Colour Special requiremons with/withour reinforcer materials ii. Job specificat such as: 	date mber ents – out ment/	information ii. Interpret job specifications iii. Determine Bottom And Sleeve Hem measuring data from		Attitude: i. Thorough in interpreting and inquisitive in clarifying job specifications ii. Detailed in checking bottom and sleeve hem sewing requirements	Related Knowledge 1 <u>Related</u> <u>Skill</u> 3	Related Knowledge Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	 i. Job order information specified ii. Job specifications listed iii. Bottom and sleeve Hem measuring data listed iv. Production approved apparel sample specified 	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
iii. iv. v. vi.	 Blouse Jacket Size Alphabets (S,M,L,XL) Number (1,2,3,4) Buyer code Style Sketch Measurement method Sewing method and technique Bottom And Sleeve Hem measuring data Production approved apparel sample 	materials vii. Interpret Bottom And Sleeve Hem specifications /iii. Determine pockets attachment procedure, method and technique				 v. Materials specifications specified vi. Defects on materials categorised vii. Bottom And Sleeve Hem specifications specified /iii. Bottom And Sleeve Hem method and technique described according to apparel type

Work Activities Related Knowl	edge Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work ActivitiesRelated Knownnumber00Length0Colourvii.Bottom And Sl Hem sewing m and technique2.Prepare bottom and sleeve hem sewing requirementsi. Work area, pers hygiene, health safety requirem such as:0Nerk area, pers hygiene, health safety requirem such as:i. Work area, pers hygiene, health 	eeve ethodsonal and heertsi. Check work area, personal hygiene, health and safety requirementssonal and heentsi. Check work area, personal hygiene, health and safety requirementses irstyle/ii. Check work station/machine table and sewing tools settingants ind tidyiii. Adjust chair height and distance from working tableyiv. Identify types of sewing machineyiv. Identify types of specifications and functions settingfvi. Check machine specifications and functions setting	Environmental Attitude: i. Resourceful in identifying tools, and materials ii. Adhere to work organization method and work procedure Safety: i. Sharp tools such as scissors, tweezer always tied up	-		Criteriai. Work area, personal hygiene, health and safety requirements specified and safety practices demonstratedii. Work station/ machine table and sewing tools setting specified according to work flowiii. Chair height and distance from working table adjusted
 covered heeled s Safety g Ergonomic deportmen Right bo posture 	shoes plasses t: bdy (sitting				according to ergonomic deportment requirements iv. Types of sewing machine and components
o Proper I	/	i. Adhere to environmental			listed v. Machine

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	posture when lifting heavy materials ii. Work station/ machine setting : Arrangement Condition Height iii. Adjustable chairs for personnel sitting positions: height distance from workstation back seats support iv. Types of sewing machine such as: Lockstitch o Single needle Over lock v. Types of machine component such as: Needles Threads stands Bobbin Bobbin case Machine safety devices (needle guard, wheel/ belt cover) vi. Machine specifications and functions setting such as: Thread tension Production		procedures when handling hazardous chemical/addit ive materials			specifications and functions setting described vi. Types of sewing tools and equipment listed and functions described vii. Materials for bottom and sleeve hem cover stitching selected according to apparel specifications viii. Bottom and sleeve hem cover stitching materials inclusive apparel arrangement on work station demonstrated according to Standard Operating Procedure

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	specifications requirements such as: • Stitch per inch (SPI) • Speed vii. Types of sewing tools and equipment such as: • Tweezers • Scissors • Measuring marking device/tape • Equipment: • Hot press • Iron viii. Selection of materials for bottom and sleeve hem cover stitching such as : • Fabrics (cut pieces) • Threads • Reinforcement materials (elastic/non-elastic) ix. Materials arrangement on workstation x. Standard Operating Procedure					
3. Sew bottom and sleeve hem	 i. Types of bottom and sleeve hem such as: With/without rib Piping Self fabric ii. Reinforcement materials attachment 	 i. Check types of bottom and sleeve hem ii. Utilise sewing tools and equipment iii. Attach reinforcement materials iv. Execute bottom and 	<u>Attitude:</u> i. Focused in handling job ii. Apply both hands during in a flexible manner	<u>Related</u> <u>Knowledge</u> 7	<u>Related</u> <u>Knowledge</u> Lecture Question and Answer Group	 Types of bottom and sleeve hem listed Utilization of sewing tools and equipment demonstrated

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 procedure (if applicable) iii. Bottom and sleeve hem sewing procedure: Fold fabric of bottom/sleeve parts Sew folded bottom/sleeve iv. Sewing tools and equipment handling technique v. Bottom and sleeve hem sewing technique such as: Interlocking Blind stitching Single needle Cover stitching (2 needle, 3 needle) Over locking (baby gauge) 	sleeve hem sewing process	Process of sewingiii. Apply correct coordination between eyes and left –right hand motioniV. Adhere to sleeve cuff creation procedureV. Adhere to quality standards requirementsVi. Always practice good housekeeping inclusive personal hygieneSafety:i. Wear PPE during operationsii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted areaiii. Adhere to	Related Skill 17	Discussion Related Skill Demonstration Observation	 iii. Reinforcement materials attachment demonstrated iv. Bottom and sleeve hem sewing process demonstrated v. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all time

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			safety requirements in handling hot/sharp items iV. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous chemical/addit ive materials			
4. Check bottom and sleeve hem output	 i. Bottom and sleeve hem finished appearance and defect checking method such as: Visual Measure Fit on model/ mannequin ii. Bottom and sleeve hem finished appearance such as: Neatly slashed/trimmed and unsightly threads removed 	 i. Check bottom and sleeve hem finished appearance and defect ii. Check discrepancies in measurement iii. Detect type of defective stitching iv. Categorise defects, causes and sewing assembly defects details v. Report discrepancies /defects findings to superior 	Attitude:i.Precise in measuring partsii.Details and thorough in inspecting cut materialsiii.Adhere to quality standards requirementsiv.Always practice good housekeeping inclusive	Related Knowledge 2 <u>Related</u> <u>Skill</u> 6	Related Knowledge Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 i. Bottom and sleeve hem finished appearance and defect explained according to job specifications and quality standards requirements ii. Type of defective stitching listed and causes specified

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 No foreign materials from fabric Type of defective stitching such as: Puckering (ugly wrinkles) Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip) Defect category such as: Machine Materials Human Method Type of sewing/assembly defects: Stitching/Seams Tight or loose tension, skipped or broken stitches affecting serviceability/ durability		personal hygiene <u>Safety:</u> i. Adhere to safety requirements during appearance and defect checking <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			 according to quality standards requirements iii. Bottom and sleeve hem sewing defects categorised and details listed according to quality standards references, manuals and procedures iv. Discrepancies /defects findings reported to superior for further action according to reporting procedure and quality standard requirements v. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Foreign objects embedded in seams Broken stitch in seam or decorative stitching Any dropped stitch in a non- locking seam Any dropped stitch in a non- locking seam Two or more consecutive skipped stitches on a seaming or joining lock stitch Measurement exceeding +- tolerance Discrepancies /defects findings reporting procedure and method: Verbally Written Vii. Quality standards requirements such as: Concept of "right the first time" /No defects/ defective Measurement accuracy Quality standard references, manuals and procedures such as: Visual Defect 			Hours	Mode	Criteria housekeeping practised at all time

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Reference Guide Apparel Defect Classification Manual Job specifications Accessories card/buyer special requirements manual Defects work repair/rework procedure 					

Employability Skills

Core Abilities	Social Skills
 01.01 Identify and gather information 01.02 Document information, procedures or processes 01.04 Analyze information 01.06 Utilize word processor to process information 02.01 Interpret and follow manuals, instructions and SOP's 02.03 Communicate clearly 02.04 Prepare brief reports and checklists using standard forms 03.01 Apply cultural requirements to the workplace 03.02 Demonstrate integrity and apply ethical practices 03.03 Accept responsibility for own work and work area 03.05 Demonstrate safety skills 03.06 Respond appropriately to people and situations 04.01 Organize own work activities 04.02 Set and revise own objectives and goals 04.03 Organize and maintain own workplace 04.05 Demonstrate initiative and flexibility 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	& AP	PAREL					
SUB SECTOR		APPARE	L MAI	NUFACTURIN	IG				
JOB AREA		MASS P	RODU	CTION (SEWI	NG S	ECTION)			
NOSS TITLE		SEWING	OPEF	RATION					
COMPETENCY UNI	T TITLE	PANTS E	BODIC	E PANEL AT	ТАСН	MENT			
LEARNING OUTCO	ME	 The person who is competent in this competency unit shall be able to assemble and sew front and be bodice pieces as per requirements and designs in accordance with specifications, sewing techn Standard Operating Procedure (SOP). Upon completion of this competency unit, trainees will be able t Check pants bodice attachment requirements Prepare pants bodice attachment requirements Prepare pants fly Sew pants fly Carry out pants bodice piece attachment Carry out pants bottom hemming 					ving technique and		
PRE-REQUISITE (if applicable)	C01							
COMPETENCY UNI	TID	TA-020 2014-0		LEVEL	2	TRAINING DURATION	80 hours	SKILL CREDIT	8.0
Work Activities	Related Know	wledge		Related Skills	;	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 Check pants bodice attachment requirements 	 i. Job order infosuch as: Delivery of Quantity Batch nui Colour Special requirem accessor (zipper, beyelet) ii. Job specification 	date mber ents – ies outton,	in ii. In sp iii. D m bu m v. C sa v. Id	dentify job order normation nterpret job pecifications neasuring data fr uyer measuring nanual check productior pproved appare ample dentify materials pecifications	rom า	Attitude: i. Thorough in interpreting and inquisitive in clarifying job specifications ii. Detailed in checking pants bodice attachment requirements	Related Knowledge 2 <u>Related</u> <u>Skill</u> 6	Related Knowledge Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	 i. Job order information specified ii. Job specifications listed iii. Pants measuring data listed iv. Production approved apparel sample

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 such as: Apparel type Khakis pants Pleated pants Flat front pants Cargo pants Chinos Trousers Sweat pants Leggings Size Alphabets (S,M,L,XL) Number (1,2,3,4) Buyer code Style Sketch Measurement method iii. Pants measuring data from buyer measuring manual iv. Production approved apparel sample V. Materials specifications: Fabric type French terry taffeta single jersey cotton woven Fabric texture Light Heavy Smooth 	 vi. Identify defects on materials vii. Interpret pants specifications viii. Determine pants sewing method and technique 				 specified v. Materials specifications specified vi. Defects on materials categorised vii. Pants specifications specified /iii. Pants sewing method and technique described according to apparel type

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 coarse) Colour shading Thread specifications Size/ticket number Length Colour Labels Size (S,M,L,XL /1,2,3,4) Brand Washable/non-washable Country origin code Vi. Defects on materials such as: Fabric/materials Knots Double thick or thin yarns Picks and holes Loom Start Marks Fabric Moire Soiled filling Corrugation Dye spots, streaks or smears Knitted in, foreign or coloured thread (off colour fly) Snags, pulls in fabric Colour 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Shade to shade panel Wash/Finish Outside of Approved Shade band Dirt/Oil Strong smell due to wash finish and/or residue Non-removable stain Removable stain Removable stain Bodice parts (front, back panel) Style Dimension Length Width Opening Measurement tolerance (+/-) Colours Accessories (zipper, buttons) 					
2. Prepare pants bodice attachment requirements	i. Work area, personal hygiene, health and safety requirements such as:	 Check work area, personal hygiene, health and safety requirements 	<u>Attitude:</u> i. Resourceful in identifying tools, and	<u>Related</u> <u>Knowledge</u> 2	<u>Related</u> <u>Knowledge</u> Lecture	i. Work area, personal hygiene, health and

Work Activities Related K	Anowledge Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
 tidines Persor appear Ne Cov Body Company Witi jew Company Utilization Persor Equipm saf glo glo fab cov ket Sai Ergon depor Rig pos seting: 	 ss and ss and ss station/machine table and sewing tools setting iii. Adjust chair height an distance from working table iv. Identify types of sewin machine v. Identify types of sewin tools and equipment vii. Identify types of sewin tools and equipment viii. Select materials for pants bodice attachment ix. Arrange materials on work station vered low-eled shoes fety glasses nomic rtment: ght body sture (sitting sition) kept curely oper body sture when ing heavy aterials for / machine 	g materials ii. Adhere to work organization method and work procedure g <u>Safety:</u> i. Sharp tools such as scissors, tweezer always tied up	Related Skill 6	Question and Answer <u>Related Skill</u> Demonstration Observation	 safety requirements specified and safety practices demonstrated Work station/ machine table and sewing tools setting specified according to work flow Chair height and distance from working table adjusted according to ergonomic deportment requirements Types of sewing machine and components listed Machine specifications and functions setting described Types of sewing tools and equipment listed and functions described

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Height iii. Adjustable chairs for personnel sitting positions: height distance from workstation back seats support iv. Types of sewing machine such as: Lockstitch Single needle Double needle Blindstitch Overlock V. Types of machine component such as: Needles Threads stands Bobbin Bobbin case Machine safety devices (needle guard, wheel/ belt cover) vi. Machine specifications and functions setting such as: Thread tension Production specifications requirements such as: Stitch per inch (SPI) Speed 					 Vii. Materials for pants bodice attachment selected according to pants specifications /iii. Materials inclusive cut pieces arrangement on work station demonstrated according to Standard Operating Procedure

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 vii. Types of sewing tools and equipment such as: Tweezers Scissors Measuring marking device/tape Equipment: Steam press Iron Ironing table viii. Selection of materials for pocket creation and attachment such as : Fabrics (front and back cut pieces) Threads Marker (special pen for fabric, chalk) Interlining ix. Materials arrangement on workstation x. Standard Operating Procedure 					
3. Prepare pants fly	 i. Fly specifications such as: Cut pieces types: fly facing fly catch catch lining Length Width Thickness Colour ii. Fly fabric 	 i. Check Fly specifications ii. Check Fly fabric specifications iii. Check reinforcement materials specifications iv. Reinforce placket fabric v. Utilise sewing tools and equipment vi. Execute fly 	 <u>Attitude:</u> Be accurate in placing interlining to fabric Apply both hands during process of reinforcement Both hands and fingers must be 	<u>Related</u> <u>Knowledge</u> 2	Question and Answer Group Discussion	 Fly specifications specified Reinforcement materials specifications specified according to fabric type Fly fabric reinforcement demonstrated

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
i,	specifications such as: Type Texture Reinforcement materials specifications such as: Type Hard fabric Interlining (Fusible /infusible) Dimension Texture V. Fabric reinforcement method: Fusing (hot press/iron) Sewing V. Sewing tools and equipment handling technique V. Fly preparation procedure, method and technique: Fuse interlining on fly facing Serge/over lock fused facing Attach zipper (if applicable) Over lock edge of fly catch and catch lining together (right sides matching each other and 	vii. Check fly shape and condition appearance	flexible when operating tiny parts iv. Adhere to fly preparation procedure v. Adhere to quality standards requirements vi. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> i. Wear PPE during operation ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items	Related Skill 6	<u>Related Skill</u> Demonstration Observation	 V. Utilization of sewing tools and equipment demonstrated V. Fly preparation demonstrated according to sewing method and technique Vi. Fly shape and condition appearance explained according to fly specifications and quality standards requirements Vii. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 with seam allowance) Turn right side of fly catch out Edge stitch seam Press seam allowances of catch lining inwards Vii. Fly appearance and defect checking method: Visual Measure Fit on model/ mannequin Yiii. Fly shape and condition appearance: Either side of fly extends over other side by excessive amount Width is not uniform Bottom stopper does not securely clinched 		 iv. Follow electrical components safety instructions <u>Environmental:</u> Adhere to environmental procedures when handling hazardous materials 			
4. Sew pants fly	 i. Stitching guideline marking ii. Fly facing placement onto fly front of pants (right side facing) iii. Sewing tools and equipment handling technique iv. Fly sewing procedure, 	 i. Determine stitching guideline marking ii. Place fly facing onto fly front of pants (right side facing) iii. Utilise sewing tools and equipment iv. Execute fly sewing process 	Attitude:i. Concentrate on sewing path and positionii. Apply both hands during in a flexible manner	8	<u>Related</u> <u>Knowledge</u> Lecture Question and Answer Group Discussion	 i. Stitching guideline marking specified ii. Fly facing placement onto fly front of pants (right side facing)

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 method and technique Run stitch fly facing to front panel Marks stitching guideline on right side of left front panel Top stitch left fly front along marked line Place zipper tape onto fly catch (if applicable) Edgestitch fly of right front panel Runstitch a crotch seam Stitch a triangular shape to strengthened attached fly Attached Fly finished appearance Neatly slashed/trimmed and unsightly threads removed Fly opening dimension as per specifications Shape in place No foreign materials from fabric Measurements accuracy 	v. Check attached fly shape and condition appearance	 process of sewing iii. Apply correct coordination between eyes and left –right hand motion iv. Both hands and fingers must be flexible when operating tiny parts v. Adhere to quality standards requirements vi. Always practice good housekeeping inclusive personal hygiene Safety: Wear PPE during operation Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa 	Related Skill 16	Related Skill Demonstration Observation	demonstrated iii. Utilization of sewing tools and equipment demonstrated iv. Fly sewing process demonstrated according to sewing method and technique V. Attached fly shape and condition appearance explained according to pants specifications and quality standards requirements vi. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			ted area ii. Adhere to safety requirements in handling hot/sharp items			
			<u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			
5. Carry out pants bodice piece attachment	 i. Front and back trouser panel opening measurement ii. Back bodice piece preparation procedure, method and technique: Sew back darts (right and left piece) Press/iron darts (face towards centre back) iii. Side seams closing procedure, method and technique: Place both right 	 i. Determine front and back trouser panel opening measurement ii. Utilise sewing tools and equipment iii. Execute back bodice piece preparation process iv. Execute side seams closing process v. Execute in seams closing process vi. Execute centre back seams closing process vi. Execute centre back seams closing process vii. Follow side seam , 	Attitude:i.Concentrate on sewing path and positionii.Apply both hands in a flexible manners during process of sewingiii.Apply correct coordination between eyes and left –right	Related Knowledge 5 <u>Related</u> Skill 11	Related Knowledge Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 Front and back trouser panel opening measurement specified Back bodice piece preparation process demonstrated Side seams closing process demonstrated In seams closing

Work Activities Related Knowledge	Related Skills	Attitude/Safety/ Trainin Environmental Hours	 Assessment Criteria
 front and back panels (notches match at hips, knee and hem) Run stitch alongside seam Bartack at the end of stitching Press side seam open with hot press/iron iv. Sewing tools and equipment handling technique V. In seams closing procedure, method and technique: Match notches of front and back piece at knee and hem Stitch through two layers of materials Press in seam open vi. Centre back seams closing procedure, method and technique: Attach waistband Sew front and back rise until trouser leg (over locking) Press open stitch seam from crotch to waistband Stitch catch lining to pants 	inseam and centre back sewing guidelines /iii. Determine label specifications and sewing position ix. Check pants bodice piece finished appearance	hand motion iv. Adhere to quality standards requirements v. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> i. Wear PPE during operation ii. Sharp tools such as cutting tools always kept in safe place/ designated area iii. Adhere to safety requirements in handling hot/sharp items <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous	 process demonstrated V. Centre back seams closing process demonstrated Vi. Side seam, inseam and centre back sewing guidelines explained and demonstrated during sewing operation Vii. Label specifications and sewing position specified Viii. Pants bodice piece finished appearance explained according to pants specifications and quality standards requirements ix. Work area, personal hygiene, Health, Safety, Environment

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 vii. Side seam , inseam and centre back sewing guidelines: Check notches of both pieces correctly matched before start stitch (to avoid misalignment) Do not stretch or push materials to match notches(to avoid unsightly features in finished seam) /iii. Label specifications and sewing position ix. Attached pants bodice appearance and defect checking method ix. Attached pants bodice finished appearance measurement accuracy (symmetrical) No unsightly features 		materials			(HSE) requirements and good housekeeping practised at all times
6. Carry out pants bottom hemming	 i. Pants bottom hem sewing position ii. Pants bottom hemming measurement accuracy (both legs) iii. Sewing tools and equipment handling 	 i. Determine pants bottom hem sewing position ii. Check pants bottom hemming measurement accuracy (both legs) iii. Utilise sewing tools 	<u>Attitude:</u> i. Concentrate on sewing path and position ii. Apply both hands during in a flexible	<u>Related</u> <u>Knowledge</u> 5	<u>Related</u> <u>Knowledge</u> Lecture Question and Answer Group Discussion	 Sewing position of pants bottom hem specified Measurement accuracy (both legs) of pants bottom

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	seam v. Pants bottom hemming appearance	and equipment iv. Execute pants bottom hemming process v. Check pants bottom hemming finished appearance vi. Detect type of defective stitching vii. Categorise defects, causes and sewing assembly defects details /iii. Report discrepancies /defects findings to superior	 manner process of sewing iii. Apply correct coordination between eyes and left –right hand motion iv. Adhere to quality standards requirements v. Always practice good housekeeping inclusive personal hygiene Safety: Wear PPE during operation Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area Adhere to safety requirements 	Related Skill 11	Related Skill Demonstration Observation	hemming demonstrated iii. Utilization of sewing tools and equipment demonstrated iv. Pants bottom hemming process demonstrated according to sewing method and technique v. Pants bottom hemming finished appearance explained according to pants specifications vi. Type of defective stitching listed and causes specified according to quality standards requirements vii. Pants bottom hemming sewing defects categorised and details

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	as: Machine Materials Human Method ix. Type of sewing/ assembly defects: Stitching/seams: Tight or loose tension, skipped or broken stitches affecting serviceability/ durability Needle cut, nick, needle pull or visible abrasion caused by needles Foreign objects embedded in seams Foreign objects embedded in seams Broken stitch in seam or decorative stitching Any dropped stitch in a non- locking seam Two or more consecutive skipped stitches on a Seaming or		in handling hot/sharp items <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			listed according to quality standards references, manuals and procedures /iii. Discrepancies /defects findings reported to superior for further action according to reporting procedure and quality standard requirements ix. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	joining lock stitch Measurement exceeding +- tolerance X. Discrepancies /defects findings reporting procedure and method: Verbally Written Xi. Quality standards requirements such as: Concept of "right the first time" /No defects/ defective Measurement accuracy Xii. Quality standard references, manuals and procedures such as: Visual Defect Reference Guide Apparel Defect Classification Manual Job specifications Accessories card/buyer special requirements manual Defects work repair/rework procedure					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria

Employability Skills

Core Abilities	Social Skills
 01.01 Identify and gather information 01.02 Document information, procedures or processes 01.04 Analyze information 01.06 Utilize word processor to process information 02.01 Interpret and follow manuals, instructions and SOP's 02.03 Communicate clearly 02.04 Prepare brief reports and checklists using standard forms 03.01 Apply cultural requirements to the workplace 03.02 Demonstrate integrity and apply ethical practices 03.03 Accept responsibility for own work and work area 03.05 Demonstrate safety skills 03.06 Respond appropriately to people and situations 04.01 Organize own work activities 04.02 Set and revise own objectives and goals 04.03 Organize and maintain own workplace 04.05 Demonstrate initiative and flexibility 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Sample of company documentation procedure (Job order sheet, Job specifications sheet, Standard Operating Procedure, measuring manual) Quality Standard reference, manuals and procedures (Visual Defect Reference Guide, Apparel Defect Classification Manual, Accessories card/buyer special requirements manual, Defects work repair/rework procedure) Production apparel sample Sample of fabric Sample of pants bodice cut pieces (fly, front and back bodice) Work station/table with adjustable chairs Sewing machine (lockstitch, overlock, blindstitch) Sewing machine component (needles, threads stands, bobbin, bobbin case, Machine safety devices (needle guard, wheel/belt cover) Sample of machine operating manual Sewing materials (interlining, threads, zipper, button,etc) Dummy model Sewing tools (tweezers, scissors, measuring tape/marking device) Equipment (hot press/iron/ironing table) Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc) 	1:1 1:1 1:1 1:25 As per required As per required 1:5 1:5 1:5 1:5 1:5 1:1 1:25 As per required 1:25 1:1

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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	& APF	PAREL					
SUB SECTOR		APPARE	PPAREL MANUFACTURING						
JOB AREA		MASS PF	MASS PRODUCTION (SEWING SECTION)						
NOSS TITLE		SEWING	SEWING OPERATION						
COMPETENCY UNI	T TITLE	SKIRT BO	SKIRT BODICE PANEL ATTACHMENT						
LEARNING OUTCO	ME	 The person who is competent in this competency unit shall be able to assemble and sew from bodice pieces as per requirements and designs in accordance with specifications, sewing Standard Operating Procedure (SOP). Upon completion of this competency unit, trainees will be Check skirt bodice attachment requirements Prepare skirt bodice attachment requirements Attach skirt front and back bodice piece Carry out skirt creative artwork and decoration Check skirt bodice output 			ving technique and				
PRE-REQUISITE (if applicable)	C01							
	TID	TA-020 2014-C		LEVEL	2	TRAINING DURATION	60 hours	SKILL CREDIT	6.0
Work Activities	Related Know	wledge		Related Skills	;	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
1. Check skirt bodice attachment requirements	 i. Job order info such as: Delivery of Quantity Batch nut Colour Special requiremon accessori (zipper, b eyelet) ii. Job specificat such as: 	date mber ents – ies outton,	inf ii. Int sp iii. De bu ma iv. Ch ap sa v. Ide sp	entify job order ormation erpret job ecifications etermine skirt easuring data f yer measuring anual neck productior proved appare mple entify materials ecifications entify defects o	rom 1	Attitude: i. Thorough in interpreting and inquisitive in clarifying job specifications ii. Detailed in checking skirt bodice attachment requirements	<u>Related</u> <u>Knowledge</u> 1 <u>Related</u> <u>Skill</u> 3	Related Knowledge Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	 i. Job order information specified ii. Job specifications listed iii. Skirt measuring data listed iv. Production approved apparel sample specified

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Mermaid Skirt Gypsy/Tiered Skirt Pencil Skirt Flared Skirt Flared Skirt Mini Skirt Bustle Skirt Maxi Skirt Pleated Skirt Circle Skirt Vrap Skirt Poodle Skirt Gathered Skirt Size Alphabets (S,M,L,XL) Number (1,2,3,4) Buyer code Style Sketch Measurement method Skirt measuring data from buyer measuring manual Production approved apparel sample 	materials vii. Interpret skirt specifications /iii. Determine skirt sewing method and technique				 v. Materials specifications specified vi. Defects on materials categorised vii. Skirt specifications specified /iii. Skirt sewing method and technique described according to apparel type

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 woven Fabric texture Light Heavy Smooth coarse) Colour shading Thread specifications Size/ticket number Length Colour Labels Size (S,M,L,XL /1,2,3,4) Brand Washable/non-washable Country origin code Vi. Defects on materials such as: Fabric/materials Knots Double thick or thin yarns Picks and holes Loom Start Marks 	Related Skills				
	 Fabric Moire Soiled filling Corrugation 					
	 Dye spots, streaks or smears 					
	 Knitted in, foreign or 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 coloured thread (off colour fly) Snags, pulls in fabric Colour Shade to shade panel Wash/Finish Outside of Approved Shade band Dirt/Oil Strong smell due to wash finish and/or residue Non-removable stain Removable stain Removable stain Removable stain Skirt specifications such as: Bodice parts (front, back panel/piece) Shape Style Dimension Length Width Opening Measurement tolerance (+/-) Colours Accessories (zipper, buttons) Decorative items 		Environmental	Hours	Mode	Criteria
	(lace, ribbons,					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	Related Knowledge piping) /iii. Sewing method and technique i. Work area, personal hygiene, health and safety requirements such as: • Workplace cleanliness and tidiness • Personal appearances o Neat hairstyle/ covered • Body parts clean and tidy • Without jewellery	Related Skills i. Check work area, personal hygiene, health and safety requirements ii. Check work station/machine table and sewing tools setting iii. Adjust chair height and distance from working table iv. Identify types of sewing machine v. Identify types of machine component	-	• • •	-	i. Work area, personal hygiene, health and safety requirements specified and safety practices demonstrated ii. Work station/ machine table and sewing tools setting specified
	Personal Protective	 vi. Check machine specifications and functions setting vii. Identify types of sewing tools and equipment xiii. Determine skirt seam allowances measurement viii. Identify Art specifications ix. Identify Decoration design line x. Arrange materials on work station 	scissors, tweezer always tied up to work station and needles kept in place ii. Always work in proper lighting at workstation <u>Environmental:</u> i. Adhere to environmental procedures			 according to work flow iii. Chair height and distance from working table adjusted according to ergonomic deportment requirements iv. Types of sewing machine and components listed v. Machine specifications

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 position) kept securely Proper body posture when lifting heavy materials Work station/ machine setting : Arrangement Condition Height Adjustable chairs for personnel sitting positions: height distance from workstation back seats support Types of sewing machine such as: Lockstitch Single needle Double needle Blindstitch Over lock Types of machine component such as: Needles Threads stands Bobbin Bobbin case Machine specifications 		when handling hazardous chemical/addit ive materials			and functions setting described vi. Types of sewing tools and equipment listed and functions described kiv. Skirt seam allowances measurement specified xi. Art specifications specified xii. Decoration design line listed vii. Materials inclusive cut pieces arrangement on work station demonstrated according to Standard Operating Procedure

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	and functions setting					
	such as:					
	Thread tensionProduction					
	 Production specifications 					
	requirements such					
	as:					
	 Stitch per inch 					
	(SPI)					
	 Speed vii. Types of sewing tools 					
	and equipment such					
	as:					
	Tweezers					
	Scissors					
	Measuring marking					
	device/tape					
	 Equipment: Steam press 					
	o Steam press o Iron					
	 Ironing table 					
	viii. Skirt seam allowances					
	measurement					
	ix. Decorative effect:					
	Darts					
	SeamPleats					
	PleatsTucks					
	gathering					
	 Piping and binding 					
	Materials					
	(embroidery, logos,					
	label, tapes)					
	x. Art specifications:					
	Position					
	Sizes					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	 Texture xi. Decoration design line xii. Materials arrangement i. Darts, pleats, gathers placement of back and front bodice piece ii. Back and front bodice piece preparation procedure, method and technique: Fold darts, pleats, gathers Sew back darts, pleats, gathers Press/iron darts iii. Skirt side seams closing procedure, method and technique: Place both right front and back pieces (notches match at hips and and hem) Run stitch alongside seam (single needle) Bartack at the end of stitching Press side seam open with hot 	 Related Skills i. Check darts, pleats, gathers placement of back and front bodice piece ii. Execute Back and front bodice piece preparation process iii. Execute skirt side seams closing process iv. Check skirt bottom measurement accuracy v. Utilise sewing tools and equipment vi. Execute skirt bottom hemming process vii. Check attached skirt finished appearance 	Environmental <u>Attitude:</u> i. Focused in handling job ii. Apply both hands during in a flexible manner process of sewing iii. Adhere to skirt front and back bodice piece attachment procedure iv. Adhere to quality standards requirements v. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> i. Wear PPE	•		 Criteria Darts, pleats, gathers placement of back and front bodice piece specified Utilization of sewing tools and equipment demonstrated Back and front bodice piece preparation process demonstrated Skirt side seams closing process demonstrated Skirt bottom measurement accuracy demonstrated Skirt bottom hemming process demonstrated
		175	during operations ii. Sharp tools such as cutting tools			demonstrated according to sewing method and technique vii. Attached skirt finished

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 v. Sewing tools and equipment handling technique vi. Skirt bottom hemming procedure, method and technique Turn skirt bodice(show creased bottom) Over lock skirt bottom hem Vii. Attached skirt finished appearance and defect checking method Viii. Attached skirt finished appearance Neatly slashed/trimmed and unsightly threads removed No foreign materials from fabric Measurement tolerance 		 and hazardous chemical always kept in safe place/ designated area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials 			appearance explained according to skirt specifications and to quality standards requirements /iii. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times
4. Carry out skirt creative artwork and decoration	 i. Creative artwork and decoration specifications ii. Artwork and decoration requirements : Fastenings Eyelet Button and button hole 	 i. Check creative artwork and decoration specifications ii. Comply with artwork and decoration requirements iii. Determine Artwork and decorative 	<u>Attitude:</u> i. Focused in handling job ii. Apply both hands during in a flexible manner process of sewing	<u>Related</u> <u>Knowledge</u> 7	<u>Related</u> <u>Knowledge</u> Lecture Question and Answer Group Discussion	 i. Creative artwork and decoration specifications described ii. Artwork and decoration requirements complied

Work Activities Related Knowledge	Related Skills	Attitude/Safety/	Training	Delivery	Assessment
 Nork Activities Related Knowledge Snaps Hooks and eye Buckles Velcro Decorative materials: Label Tapes Ribbon Laces Drawstring iii. Artwork and decorative materials placement and alignment on marking Sewing tools and equipment handling technique Skirt creative artwork and decoration procedure, method and technique 	materials placement and alignment on marking iv. Utilise sewing tools and equipment v. Execute skirt creative artwork and decoration process	 Environmental Apply correct coordination between eyes and left –right hand motion Adhere to Skirt creative artwork and decoration procedure Adhere to quality standards requirements Always practice good housekeeping inclusive personal hygiene Safety: Wear PPE during operations Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area 	Hours Related Skill 17	Mode <u>Related Skill</u> Demonstration Observation	Criteriaiii.Utilization of sewing tools and equipment demonstratediV.Artwork and decorative materials placement and alignment on marking demonstratedV.Skirt creative artwork and decoration process demonstratedV.Skirt creative artwork and decoration process demonstratedvi.Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeepin g practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous chemical/ additive materials			
5. Check skirt bodice output	 i. Skirt appearance and defect checking method ii. Skirt finished appearance such as: Artwork and decoration suitability Thread trim Front and back bodice dimension accuracy No foreign materials from fabric iv. Discrepancies in 	 i. Check Skirt finished appearance and defect ii. Check discrepancies in measurement iii. Detect type of defective stitching iv. Categorise defects, causes and sewing assembly defects details v. Report discrepancies /defects findings to superior 	 <u>Attitude:</u> Precise in measuring parts Details and thorough in inspecting cut materials Adhere to quality standards requirements Always practice good housekeeping inclusive 	Related Knowledge 6 <u>Related</u> <u>Skill</u> 14	Related Knowledge Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 Skirt finished appearance and defect explained according to job specifications and quality standards requirements Type of defective stitching listed and causes specified according to quality

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 measurement V. Type of defective stitching such as: Puckering (ugly wrinkles) Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip) Vi. Defect category such as: Machine Materials Human Method Vii. Type of sewing/assembly defects: Stitching/Seams Tight or loose tension, skipped or broken stitches affecting serviceability/ durability Needle cut, nick, needle pull or visible abrasion caused by needles Foreign objects embedded in 		personal hygiene <u>Safety:</u> i. Adhere to safety requirements during appearance and defect checking <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			standards requirements iii. Skirt sewing defects categorised and details listed according to quality standards references, manuals and procedures iv. Discrepancies /defects findings reported to superior for further action according to reporting procedure and quality standard requirements v. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 seams Broken stitch in seam or decorative stitching Any dropped stitch in a non-locking seam Two or more consecutive skipped stitches on a seaming or joining lock stitch Measurement exceeding +- tolerance Viii. Discrepancies /defects findings reporting procedure and method: Verbally Written ix. Quality standards requirements such as: Concept of "right the first time" /No defects/ defective Measurement accuracy X. Quality standard references, manuals and procedures such as: Visual Defect Reference Guide Apparel Defect 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Classification Manual Job specifications Accessories card/buyer special requirements manual Defects work repair/rework procedure					

Employability Skills

Core Abilities	Social Skills
 01.01 Identify and gather information 01.02 Document information, procedures or processes 01.04 Analyze information 01.06 Utilize word processor to process information 02.01 Interpret and follow manuals, instructions and SOP's 02.03 Communicate clearly 02.04 Prepare brief reports and checklists using standard forms 03.01 Apply cultural requirements to the workplace 03.02 Demonstrate integrity and apply ethical practices 03.03 Accept responsibility for own work and work area 03.06 Respond appropriately to people and situations 04.01 Organize own work activities 04.02 Set and revise own objectives and goals 04.03 Organize and maintain own workplace 04.05 Demonstrate initiative and flexibility 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Sample of company documentation procedure (Job order sheet, Job specifications sheet, Standard Operating Procedure, measuring manual) Quality Standard reference, manuals and procedures (Visual Defect Reference Guide, Apparel Defect Classification Manual, Accessories card/buyer special requirements manual, Defects work repair/rework procedure) Production apparel sample Sample of fabric Sample of skirt bodice cut pieces (front and back bodice) Work station/table with adjustable chairs Sewing machine (lockstitch, overlock) Sewing machine component (needles, threads stands, bobbin, bobbin case, Machine safety devices (needle guard, wheel/belt cover)) Sample of machine operating manual Sewing materials (interlining, threads, zipper, button,etc) Sewing tools (tweezers, scissors, measuring tape/marking device) Equipment (hot press/iron/ironing table) Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc) 	1:1 1:1 1:25 As per required As per required 1:5 1:5 1:5 1:25 As per required As per required 1:25 1:5 1:5 1:5 1:5 1:5 1:1 1:25 1:1 1:5 1:1

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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	EXTILE & APPAREL					
SUB SECTOR		APPARE	PPAREL MANUFACTURING					
JOB AREA		MASS PI	RODUCTION (SEWI	NG SE	ECTION)			
NOSS TITLE		SEWING	OPERATION					
COMPETENCY UNI	T TITLE	APPARE		EWIN	G OPERATION			
LEARNING OUTCO	ME	 The person who is competent in this competency unit shall be able to create, attach and severaccessories such as zipper, button and eyelet as per requirements and designs in accordat specifications, apparel accessories sewing technique and Standard Operating Procedure (SO completion of this competency unit, trainees will be able to:- Prepare apparel accessories sewing operation requirements Create waistband Attach zipper Create button hole Attach button Create eyelet hole Attach eyelet 				n accordance with		
PRE-REQUISITE (if applicable)	C01				1		
COMPETENCY UNI	T ID	TA-020 2014-0		2	TRAINING DURATION	70 hours	SKILL CREDIT	7.0
Work Activities	Related Kno	wledge	Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
1. Prepare apparel accessories sewing operation requirements	 i. Work area, p hygiene, hea safety require such as: Workplac cleanlines tidiness Personal appearan Company 	lth and ements e ss and ces	 i. Check work area, personal hygiene health and safety requirements ii. Identify job order information iii. Interpret job specifications iv. Check production approved apparel sample 		Attitude: i. Thorough in interpreting and inquisitive in clarifying job order ii. Detailed in checking product specifications iii. Resourceful in	Related Knowledge 2 <u>Related</u> <u>Skill</u> 6	Related Knowledge Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	i. Work area, personal hygiene, health and safety requirements specified and safety practices demonstrated ii. Job order

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Ergonomic deportment:Work station/	 V. Identify materials specifications vi. Identify defects on materials vii. Arrange materials on work station /iii. Interpret Quality Standard requirements ix. Identify Quality Standard references 	locating and arranging tools, equipment and materials iv. Adhere to work organization method and work procedure <u>Safety:</u> i. Wear PPE during operations ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/ designated area iii. Adhere to safety requirements in handling hot items <u>Environmental:</u> i. Adhere to environmental procedures when			 information specified iii. Job specifications listed iv. Production approved apparel sample specified v. Materials specified v. Materials specified vi. Defects on materials categorised vii. Materials inclusive cut pieces arrangement on work station demonstrated according to Standard Operating Procedure viii. Quality Standard requirements described ix. Relevant documents on quality standard references, manuals and procedures

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
v. vi.	 Style Sketch Measurement method Accessories placement measuring data from buyer measuring manual Production approved apparel sample Materials specifications: Fabric type French terry Taffeta Single jersey Cotton Woven Fabric texture Light Heavy Smooth coarse) Colour shading Thread specifications Size/ticket number Length Colour Interlining Type (fusible /infusible) Measurements Elastic/stretch band 		handling hazardous materials			listed and usage listed

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	fasteners • Type (Zipper, Buckle, Buttons, Eyelet) • Safety requirements (no sharp edge, non lead materials) • Country standards vii. Defects on materials such as: • Fabric/materials • Knots • Double thick or thin yarns • Picks and holes • Loom Start Marks • Dye spots, streaks or smears • Knitted in, foreign or coloured thread (off colour fly) • Snags, pulls in fabric • Colour • Shade to shade panel • Wash/Finish Outside of Approved Shade band • Dirt/Oil			Hours	Mode	
	 Strong smell 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 due to wash finish and/or residue Non-removable stain Removable stain Removable stain Materials arrangement on work station Quality standards requirements such as: Concept of "right the first time" /No defects/ defective Measurement accuracy Relevant documents on quality standard references, manuals and procedures such as: Visual Defect Reference Guide Apparel Defect Classification Manual Accessories card/buyer special requirements manual Defects work repair/rework procedure Standard Operating Procedure (SOP) 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
ii	 Self fabric Stretch/ elastic Size Shape Types of sewing machine such as: 2,3 and 4 needles lockstitch Over lock Types of machine component such as: Needles Threads stands Bobbin Bobbin case Machine safety devices (needle guard, wheel/ belt cover) Machine specifications and functions setting 	 i. Check waistband specifications ii. Identify types of sewing machine iii. Identify types of machine component iv. Check machine specifications and functions setting v. Identify types of sewing tools and equipment vi. Utilise sewing tools and equipment vii. Execute waistband materials preparation process iii. Execute waistband preparation and attachment process ix. Check waistband appearance and defects x. Detect type of defective stitching xi. Categorise defects, causes and sewing assembly defects details xiii. Report discrepancies /defects findings to superior 	Attitude:i.Focus in handling jobii.Apply both hands during in a flexible manner process of sewingiii.Apply correct coordination between eyes and left –right hand motioniv.Adhere to waistband preparation and attachment procedurev.Adhere to quality standards requirementsvi.Always practice good housekeeping inclusive personal hygieneSafety:i.i.Wear PPE during operationsii.Sharp tools such as	Related Knowledge 5 <u>Related</u> <u>Skill</u> 11	Related Knowledge Lecture Question and Answer <u>Related Skill</u> Demonstration Observation	 i. Waistband specifications specified ii. Types of sewing machine and components listed iii. Machine specifications and functions setting described iv. Types of sewing tools and equipment listed and functions described v. Utilization of sewing tools and equipment demonstrated vi. Materials preparation demonstrated vii. Waistband preparation and attachment process demonstrated viii. Attached waistband appearance explained

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 V. Types of sewing tools and equipment such as: Tweezers Scissors/shears Measuring marking device/tape Equipment: Steam press Iron Ironing table vi. Sewing tools and equipment handling technique Vii. Materials preparation Unfold/ unroll for readymade waistband Arrange at workstation Set Viii. Waistband preparation and attachment procedure, method and technique Attach fusible/non- fusible interlining to top band (single/ separate pieces) Stitch waistband fabrics Attach prepared waistband to apparel waistline Prepare belt loop (if applicable) 		cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			according to waistband specifications and quality standards requirements ix. Attached waistband defects categorised and details listed according to quality standards references, manuals and procedures X. Discrepancies /defects findings reported to superior for further action according to reporting procedure and quality standard requirements Xi. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	 Set prepared belt loop onto waistband appearance and defects checking method such as: Visual Measure Test on model/ mannequin or use tester X. Waistband finished appearance such as: Neatly slashed/trimmed and unsightly threads removed Uneven in width Closure misaligned Excessive fullness, puckering or twisting Strength Measurement accuracy Belt loops are crooked, missing tacks 	Related Skills				
	xi. Waistband defect category such as:Machine					
	MaterialsHuman					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Method xii. Discrepancies /defects findings reporting procedure and method: Verbally Written xiii. Quality Standards references, manuals and procedures 					
3. Attach zipper	 i. Zipper specifications such as: Types Plastic Steel Model Visible Invisible) Size ii. Types of sewing machine: Lockstitch iii. Types of machine component such as: Needles Threads stands Variety size of zip foot: Ordinary zip foot, One sided zip foot (right shoe, right hinged, left (solid) Invisible zip foot 	 i. Check zipper specifications ii. Identify types of sewing machine iii. Identify types of machine component iv. Check machine specifications and functions setting v. Identify types of sewing tools and equipment vi. Utilise sewing tools and equipment vii. Execute Zipper attachment process viii. Check Zipper appearance ix. Detect type of defective stitching x. Categorise defects, causes and sewing assembly defects details xi. Report discrepancies /defects findings to 	Attitude:i.Focus in handling jobii.Apply both hands during in a flexible manner process of sewingiii.Apply correct coordination between eyes and left –right hand motioniv.Adhere to Zipper attachment procedurev.Adhere to quality standards requirementsvi.Always practice good housekeeping inclusive	Related Knowledge 4 <u>Related</u> <u>Skill</u> 8	Related Knowledge Lecture Question and Answer Related Skill Demonstration Observation	 i. Zipper specifications specified ii. Types of sewing machine and components listed iii. Machine specifications and functions setting described iv. Types of sewing tools and equipment listed and functions described v. Utilization of sewing tools and equipment demonstrated vi. Materials

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
vi	 Bobbin Bobbin case Machine safety devices (needle guard, wheel/ belt cover) Machine specifications and functions setting Types of sewing tools and equipment Sewing tools and equipment handling technique Zipper attachment procedure, method and technique Zipper appearance and defects checking method Attached Zipper finished appearance such as: Neatly slashed/trimmed and unsightly threads removed Wavy zipper Crooked or uneven zipper Measurement accuracy Zipper stop not missing No defective stitching o Puckering (ugly wrinkles) 	superior	personal hygiene <u>Safety:</u> i. Wear PPE during operations ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items iV. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			 preparation demonstrated Vii. Zipper attachment process demonstrated Viii. Attached Zipper appearance explained according to Zipper specifications and quality standards requirements ix. Attached Zipper defects categorised and details listed according to Quality Standards references, manuals and procedures X. Discrepancies /defects findings reported to superior for further action according to reporting procedure and quality standard

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip) Zipper defect category Discrepancies /defects findings reporting procedure and method: Verbally Written Quality Standards references, manuals and procedures 					requirements xi. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times
4. Create button hole	 i. Button specifications Types Flat button (Two/four holes) Springs snaps Shank button Button materials Plastic Steel/metal Wood Leather Glass Other natural materials Size Shape Colour 	 i. Check Button specifications ii. Check Button hole specifications iii. Identify types of sewing machine iv. Identify types of machine component v. Check machine specifications and functions setting vi. Identify types of sewing tools and equipment vii. Utilise sewing tools and equipment xii. Check marking points at machine xiii. Execute Button 	Attitude:i. Focused in handling jobii. Apply both hands during in a flexible manner during operating button hole machineiii. Apply correct coordination between eyes and left –right hand motioniv. Adhere to button holing procedure	Related Knowledge 2 <u>Related</u> <u>Skill</u> 6	Related Knowledge Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 i. Button and button hole specifications specified ii. Types of machine and components listed iii. Machine specifications and functions setting described iv. Types of sewing tools and equipment listed and functions described

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
v. vi. vii. vii. ix.	 Built in pattern/special attachment Bound In-seam Button gap Measurement Size (based on button diameter plus tolerance) Colour Placement Types of machine: Button hole machine Types of machine component such as: Holder Cutter Machine safety devices Machine specifications and functions setting 	holing process ix. Check Button hole appearance x. Detect type of defective stitching xi. Categorise defects, causes and sewing assembly defects details xii. Report discrepancies /defects findings to superior	 V. Adhere to quality standards requirements Vi. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> Wear PPE during operations Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions 			 V. Utilization of sewing tools and equipment demonstrated vi. Marking points at button hole machine checking demonstrated vii. Button holing process demonstrated viii. Button hole appearance explained according to button hole specifications and quality standards requirements ix. Button hole defects categorised and details listed according to Quality Standards references, manuals and procedures x. Discrepancies /defects findings reported to

Work Activities		Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	ciii. xi. civ. xv.	 appearance and defects checking method Button hole finished appearance such as: Neatly slashed and unsightly threads removed Have uniform 'lips' or edges throughout Size as button size, thickness and fabric thickness Out of alignment or improper button spacing Stitch depth too narrow or wide Button hole defect category Discrepancies /defects findings reporting procedure and method: Verbally Written 		Environmental: i. Adhere to environmental procedures when handling hazardous materials			superior for further action according to reporting procedure and quality standard requirements xi. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times
5. Attach button	i.	 Button specifications Types Flat button 	i. Check button specificationsii. Check button hole	<u>Attitude:</u> i. Focused in handling job	<u>Related</u> Knowledge	<u>Related</u> Knowledge	i. Button specifications specified

Work Activities Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
(Two/four holes) oSprings snaps oShank buttonButton materials oPlastic oSteel/metal oWood oLeather oGlass oOther natural materialsSize oShape oColourii.Button hole 	 specifications iii. Identify types of sewing machine iv. Identify types of machine component v. Check machine specifications and functions setting vi. Identify types of sewing tools and equipment vi. Check button placement and alignment of hole at button vii. Utilise sewing tools and equipment vii. Execute button sewing process viii. Check attached button appearance ix. Detect type of defective stitching x. Categorise defects, causes and sewing assembly defects details xi. Report discrepancies /defects findings to superior 	 ii. Apply both hands during in a flexible manner during operating buttoning machine iii. Apply correct coordination between eyes and left –right hand motion iv. Adhere to button attachment procedure v. Adhere to quality standards requirements vi. Always practice good housekeeping inclusive personal hygiene <u>Safety:</u> i. Wear PPE during operations ii. Sharp tools such as cutting tools and hazardous 	2 Related Skill 6	Lecture Question and Answer Group Discussion <u>Related Skill</u> Demonstration Observation	 ii. Types of machine and components listed iii. Machine specifications and functions setting described iv. Types of sewing tools and equipment listed and functions described v. Utilization of sewing tools and equipment demonstrated viii. Button placement and alignment of hole at button checking demonstrated vii. Button sewing process demonstrated vii. Attached Button appearance explained according to button specifications

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 and functions setting vi. Types of tools and equipment such as: Measuring marking device/tape Fabric marking pen Pulling tester/ torque and tension gauge vii. Sewing tools and equipment handling technique viii. Button placement and alignment of hole at button ix. Button sewing operating procedure x. Button sewing machine operation manual xi. Attached Button appearance and defects checking method xii. Button attachment finished appearance such as: Neatly slashed/trimmed and unsightly threads removed Securely fastened with neat stitches Size fit button hole size, thickness and fabric thickness 		chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			and quality standards requirements /iii. Button defects categorised and details listed according to Quality Standards references, manuals and procedures ix. Discrepancies /defects findings reported to superior for further action according to reporting procedure and quality standard requirements x. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Lack of support materials on fragile fabric Correct positioned on the centre opening line and in correct relationship to the placket Equal distance/good proportion between two ends of opening No rough edges No dented/ cracked/chipped Button hole defect category Discrepancies /defects findings reporting procedure and method: Verbally Written Vulaity standard references, manuals and procedures 					
6. Create eyelet hole	i. Eyelet specifications • Types o Aluminium o Brass o Velcro o Netted o Square o Triangular	 i. Check Eyelet specifications ii. Check Eyelet hole specifications iii. Identify types of machine iv. Identify types of machine component 	<u>Attitude:</u> i. Focused in handling job ii. Apply both hands during in a flexible manner during	<u>Related</u> <u>Knowledge</u> 2	<u>Related</u> <u>Knowledge</u> Lecture Question and Answer Group Discussion	 i. Eyelet and Eyelet hole specifications specified ii. Types of machine and components listed

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Model number Brand name Eyelet hole specifications Types Built in pattern/special attachment Bound In-seam 	 V. Check machine specifications and functions setting Vi. Identify types of sewing tools and equipment Vii. Utilise sewing tools and equipment Kiii. Check marking points at machine Viii. Execute Eyelet holing process ix. Check Eyelet hole appearance x. Detect type of defective stitching xi. Categorise defects, causes and sewing assembly defects details xii. Report discrepancies /defects findings to superior 	 operating eyelet hole machine iii. Apply correct coordination between eyes and left –right hand motion iv. Adhere to eyelet holing procedure v. Adhere to quality standards requirements vi. Always practice good housekeeping inclusive personal hygiene Safety: i. Wear PPE during operations ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designa ted area iii. Adhere to 	Related Skill 6	Related Skill Demonstration Observation	 iii. Machine specifications and functions setting described iv. Types of sewing tools and equipment listed and functions described v. Utilization of sewing tools and equipment demonstrated vi. Marking points at Eyelet hole machine checking demonstrated vii. Eyelet hole machine checking demonstrated viii. Eyelet hole appearance explained according to job specifications ix. Eyelet hole defects categorised and details listed according to

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 equipment /iii. Marking points at machine ix. Eyelet hole operating procedure x. Eyelet hole operation manual vii. Eyelet hole appearance and defects checking method xi. Eyelet hole finished appearance such as: Neatly slashed and unsightly threads removed Have uniform 'lips' or edges throughout Size as eyelet size, thickness and fabric thickness Equal distance from apparel edge and in conjunction with centre line or lap line Same length and width xii. Eyelet hole defect category xiii. Eyelet hole defects viii. Discrepancies /defects findings reporting procedure and method: Verbally 		safety requirements in handling hot/sharp items iv. Follow electrical components safety instructions <u>Environmental:</u> i. Adhere to environmental procedures when handling hazardous materials			Quality Standards references, manuals and procedures X. Discrepancies /defects findings reported to superior for further action according to reporting procedure and quality standard requirements Xi. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities 7. Attach eyelet	 Written iv. Quality standard references, manuals and procedures i. Eyelet specifications Eyelet specifications Eyelet base and ring types 	 i. Check Eyelet specifications ii. Check Eyelet hole specifications iii. Identify types of machine iv. Identify types of machine component v. Check machine specifications and functions setting vi. Identify types of sewing tools and equipment vii. Utilise sewing tools and equipment viii. Check Eyelet placement and alignment ix. Execute Eyelet holing process x. Check Eyelet hole 	-	-		
	pattern/special attachment o Bound o In-seam Eyelet gap measurement Size	appearance xi. Detect type of defective stitching xii. Categorise defects, causes and sewing assembly defects details (iii. Report discrepancies	vi. Always practice good housekeeping inclusive personal hygiene			equipment demonstrated vi. Button placement and alignment eyelet components (washer/ring)
	ColourPlacement	/defects findings to superior	<u>Safety:</u> i. Wear PPE			checking demonstrated

iii.Types of sewing machine: •during operationsvii.Eyel attact proc demiv.Types of machine component such as: •ii.Sharp tools such as cutting toolsviii.Eyel attact proc demiv.Types of machine component such as: •iii.Sharp tools such as cutting toolsviii.Eyel attact proc demiv.Types of machine component such as: •Holderand hazardous chemical always kept in safe place/designa ted areaexpla accc eyel spec ted areaexpla accc eyel safe safety ted areaiii.Attact expla accc eyel safe ted areavi.Machine specifications and functions setting vii.Types of tools and equipment such as:iii.Adhere to safety requirements in handling ted areasafety requirements in handling ted areaiii.vii.Types of tools and equipment such as:iii.Adhere to safety requirements in handling ted areasafety requirements in handling ted areaiii.	ssment teria
device/tapeitems• Fabric marking peniv. Follow• Pulling tester/ torque and tension gaugecomponentsviii. Marking points at machinesafetyviii. Marking points at 	et chment ess onstrated ched et earance ained ording to et cifications quality dards irements et defects gorised details d ording to lity dards rences, nuals and cedures repancies ects ngs rted to erior for er action ording to rting edure quality dards rences, nuals and cedures repancies ects ngs rted to erior for er action ording to rting edure quality dards rences, ngs rted to erior for er action ording to rting edure quality dards

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Size as eyelet size, thickness and fabric thickness Equal distance from apparel edge and in conjunction with centre line or lap line Same length and width No rough edges No dented/cracked Eyelet defect category XX. Discrepancies /defects findings reporting procedure and method: Verbally Written Kuality standard references, manuals and procedures 					hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Employability Skills

Core Abilities	Social Skills		
 01.01 Identify and gather information 01.02 Document information, procedures or processes 01.04 Analyze information 01.06 Utilize word processor to process information 02.01 Interpret and follow manuals, instructions and SOP's 02.03 Communicate clearly 02.04 Prepare brief reports and checklists using standard forms 03.01 Apply cultural requirements to the workplace 03.02 Demonstrate integrity and apply ethical practices 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline 		

03.03 Accept responsibility for own we	ork and work area	8.	. Teamwork
03.05 Demonstrate safety skills			
03.06 Respond appropriately to peopl	e and situations		
04.01 Organize own work activities			
04.02 Set and revise own objectives a	nd goals		
04.03 Organize and maintain own wor	kplace		
04.05 Demonstrate initiative and flexib	ility		

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
 Sample of company documentation procedure (Job order sheet, Job specifications sheet, Standard Operating Procedure, measuring manual) Quality Standard references, manuals and procedures (Visual Defect Reference Guide, Apparel Defect Classification Manual, Accessories card/buyer special requirements manual, Defects work repair/rework procedure) 	1:1
 Production apparel sample Sample of fabric Sample of parts section (waistband, bodice pieces) Work station/table with adjustable chairs Sewing machine (2,3,4 singele needle lockstitch, overlock, button hole, eyelet hole, buttonnig, eyelet buttoning) Sewing machine component (needles, threads stands, bobbin, bobbin case, Machine safety devices (needle guard, wheel/belt cover)) Sample of machine operating manual Sewing materials (interlining, threads, twill tape,zippers, button, eyelet) Dummy model Sewing tools (tweezers, scissors, measuring tape/marking device) Equipment (hot press/iron/ironing table) Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc) 	1:25 As per required As per required 1:5 1:5 1:5 1:25 As per required 1:25 1:1 1:5 1:1

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SUMMARY OF TRAINING DURATION FOR SEWING OPERATION - LEVEL 2

TA-020- 2:2014- C01	TITLE SEWING AREA HEALTH, SAFETY AND	Prepare housekeeping and preventive maintenance	(A)	(B)	(A+B)	(HOURS)	
2:2014-					(, (, 2))		
2:2014-			2	4	6		
2:2014-	HEALTH, SAFETY AND	requirements Check sewing workplace condition	1	3	4		
		Check sewing workplace condition					
C01	ENVIRONMENT	Carry out work area housekeeping and preventive maintenance	6	14	20	40	
	COMPLIANCE PRACTICES	Practise health, safety and environment requirements	1	4	5		
	PRACTICES	Upkeep work area after operation	1	4	5		
			11	29	40		
		Check pocket attachment requirements	2	6	8		
		Prepare pocket attachment requirements	2	6	8		
TA-020-	APPAREL POCKET	Fold pocket cut piece	6	14	20		
2:2014- C02	ATTACHMENT	Carry out front bodice piece marking	2	6	8	80	
C02		Create apparel pocket opening	6	14	20		
		Sew attached pocket cut piece	5	11	16		
			23	57	80		
		Check placket attachment requirements	2	6	8		
TA-020-	APPAREL PLACKET	Prepare placket attachment requirements	4	8	12		
2:2014-	AFFAREL PLACKET	Reinforce placket fabric Attach placket to bodice piece	5	11 14	16 20	80	
C03	ATTACHMENT	Sew attached placket	6 8	14	20		
		Sew allacheu plackel	° 25	55	24 80		
		Prepare shoulder, sleeve and side seam attachment					
		requirements	2	6	8		
	APPAREL SHOULDER ,	Carry out shoulder attachment	2	6	8		
	SLEEVES AND SIDE	Carry out sleeve and side seam attachment	14	34	48	80	
C04 \$		Check shoulder, sleeve and side seam output	5	11	16		
			23	57	80		
		Prepare collar and sleeve cuff creation requirements	1	3	4		
TA-020-	COLLAR AND SLEEVE	Carry out collar creation	3	7	10		
2:2014-	CUFF CREATION	Cary out sleeve cuff creation	5	11	16	40	
C05	OUT ONE/MON	Check collar and sleeve cuff output	3	7	10		
			12	28	40		
		Prepare sewing area and material requirements	2	6	8		
		Carry out collar and label sewing process	12	28	40		
2:2014- A C06		Carry out sleeve cuff sewing process	7	15	22	80	
C06	OPERATION	Check collar and sleeve cuff attachment output	3	7	10		
			24	56	80		
TA-020-		Check bottom and sleeve hem sewing requirements	1	3	4		
2:2014- B	SOTTOW AND SELEVE	Prepare bottom and sleeve hem sewing requirements	1	3	4 24	40	
C07		Sew bottom and sleeve hem Check bottom and sleeve hem output	2	17 6	24 8	40	
001		Check bottom and sleeve hem output	11	29	40		
		Check pants bodice attachment requirements	2	6	40 8		
		Prepare pants bodice attachment requirements	2	6	8		
TA-020-		Prepare pants fly	2	6	8		
2:2014- P/	ANTS BODICE PANEL ATTACHMENT	Sew pants fly	8	16	24	80	
C08	ATTACHMENT	Carry out pants bodice piece attachment	5	11	16		
		Carry out pants bottom hemming	5	11	16		
		·	24	56	80		
		Check skirt bodice attachment requirements	1	3	4		
TA-020-		Prepare skirt bodice attachment requirements	1	3	4		
2:2014- S		Attach skirt front and back bodice piece	2	6	8	60	
C09		Carry out skirt creative artwork and decoration	7	17	24		
		Check skirt bodice output	6	14	20		
			17	43	60		
		Prepare garment accessories sewing operation requirements	2	6	8		
		Create waistband	5	11	16		
TA-020-	OANNENT	Attach zipper	4	8	12		
2:2014-	ACCESSORIES	Create button hole	2	6	8	70	
C10 S		Attach button Create eyelet hole	2	6 6	8		
		Attach eyelet	3	6	8		
		Allaul byolol	20	50	70		
		TOTAL HOURS (Core Competencies)	190		650	650	
		TOTAL HOURS (Core Competencies)	190	460	000	Uca	