

STANDARD KEMAHIRAN PEKERJAAN KEBANGSAAN (NATIONAL OCCUPATIONAL SKILLS STANDARD)

STANDARD PRACTICE, STANDARD CONTENT & CURRICULUM of COMPETENCY UNIT FOR

SEWING OPERATION SUPERVISION LEVEL 3 TA-020-3:2014





MALAYSIAN TEXTILE AND APPAREL
CENTRE

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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

Brassiere A woman's undergarment for supporting the breasts. A

short name is bra

Coat A coat is a long garment worn by both men and women.

Coats typically have long sleeves open down the front, closing by means of buttons, zippers, hook-and-loop fasteners, , a belt, or a combination those accessories

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/ A common term for a variety of materials used on the interlining 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

Line balancing Line balancing is a way to increase productivity as

increasing or decreasing unwanted operations from the line can be done. The overall operation layout is considered to be optimum if all machines in the line are utilized optimally and no worker is sitting idle. In other words, it is to reduce wastage of time as some workers might be sitting idle because the pieces are not being

delivered to them on time.

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 SUPERVISION LEVEL 3 (TA-020-3:2014)

1. INTRODUCTION

Occupation Overview

Textile and apparel are basic consumption items, in both developed and developing countries. The industry, especially clothing/apparel, is labour-intensive and requires skilled worker in the operation. The Malaysian textile and apparel industry comprises two main sub-sectors. Those sectors are textile and apparel, which include apparel making and clothing accessories such as buttons, zippers, labels and packaging.

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, headgear (caps and hats) and textile accessories such as zippers, buttons, collars, cuffs, etc. In the industry insight sections, it stated that in Malaysia, the apparel sector has a long experience as producer of high end international brands. e.g. Nike, Oshkosh, Burberry, Walt Disney, Puma, GAP, Ashworth, etc 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. As an Islamic country, Malaysia is able to cater to the demand of Islamic fashion wear. Malaysia is currently known for its fashionable Islamic apparels.(http://www.matrade.gov.my/en/foriegn-buyers-section/69-industrywrite-up--products/722-textiles-and-apparel-, 04/09/2014, 4.00pm)

The readymade apparel 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 operation supervision

competencies in apparel manufacturing emphasizes on the complex apparel sewing activities such as coat sewing and sample apparel making for buyer or production. This documents also outlines supervisory role which responsible in ensuring quality products through systematic and efficient production administration as well as good personnel supervision skills. Optionally, this document also covers competencies required for sewing women brassiere and head gear.

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.

Although low labour cost is crucial for textile and apparel industry, other factors could be as important. These 'other' factors include labour skills and productivity, availability of workers, availability of supervisory and managerial personnel, readiness of infrastructure, logistic and supply chain, reliability of suppliers, cost and availability of capital, proximity to markets, business climate, and political stability. In order to face the challenging future, the local textile and apparel manufacturers need to identify which are the key factors to their operation. They can benchmark and objectively reassess their situation. They should aim to be above the industry's standard to stay competitive and prosper.

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 Supervision for Level 3, 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 Supervision 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 Ministry of Human Resources strategic initiatives in increasing high skill technical workforce towards transforming Malaysia as a high income nation and developed country.

For this level 3, the prerequisite for program enrolment into training centre is *SijilKemahiran MalaysiaTahap 2/* Malaysia Skills Certificate Level 2 (Sewing Operation) 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 Supervision (Level 3) personnel come under sub-sector Apparel Manufacturing. Figure 1.1 and 1.2 show the structured career path and job area of Sewing Operation Supervision (Level 3) personnel.

SECTOR		TEXTILE & APPAREL									
SUB SECTOR	APPAREL MANUFACTURING										
AREA				APPARE	L PRODUCTIO	N MANAGEM	IENT				
JOB AREA	SAMPLE ROOM		MARKER PLANNING	CUTTING SECTION		SEWING SECTION	FINISHING SECTION		l		
SUB AREA	PATTERN MAKING	SAMPLE MAKING		CUTTING	EMBROIDERY	PANEL PRINTING	SEWING SECTION	WASHING	IRONING	FOLDING	PACKING
LEVEL 5				APF	AREL PRODUCTION	ON MANAGER					
LEVEL 4	SAMPLE ROOF	M EXECUTIVE	MARKER PLANNING EXECUTIVE			APPAREL	PRODUCTION EX	KECUTIVE			
LEVEL 3	PATTERN MAKER	SAMPLE MAKER SUPERVISOR	MARKER PLANNING SUPERVISOR	CUTTIN	CUTTING SECTION PRODUCTION SUPERVISOR		SEWING SECTION SUPERVISOR	FINISHING PRODUCTION SUPERVISOR		ERVISOR	
LEVEL 2	ASSISTANT PATTERN MAKER	SAMPLE MAKER	CADCAM OPERATOR	SENIOR CUTTING OPERATOR	EMBROIDERY SENIOR OPERATOR	PANEL PRINTING SENIOR OPERATOR	SEWING LINE LEADER	FINISHING LINE LEADER		R	
LEVEL 1	NO LEVEL	NO LEVEL	NO LEVEL	CUTTING OPERATOR	EMBROIDERY OPERATOR	PANEL PRINTING OPERATOR	SEWING OPERATOR		FINISHING	OPERATOR	1

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

Occupational Area Structure (OAS)

Occupational Alea Structure (OAS)											
SECTOR		TEXTILE & APPAREL APPAREL MANUFACTURING									
SUB SECTOR											
AREA				APPAREI	_ PRODUCTIO	N MANAGEM	IENT				
JOB AREA	SAMPLE ROOM		SAMPLE ROOM MARKER PLANNING		CUTTING SECTION		SEWING SECTION FINISHING		G SECTION		
SUB AREA	PATTERN MAKING	SAMPLE MAKING		CUTTING	EMBROIDERY	PANEL PRINTING	SEWING SECTION	WASHI NG	IRONING	FOLDING	PACKING
LEVEL 5				APP	AREL PRODUCTION	ON MANAGER					
LEVEL 4	SAMPLE D	DEVELOPMENT SF	PECIALIST			APPAREL I	PRODUCTION EXE	CUTIVE			
LEVEL 3	SAMPLE MAKIN	G SUPERVISION	MARKER PLANNING SUPERVISION	CUTTING	NG OPERATION SUPERVISOR		SEWING OPERATION SUPERVISION	FINISHING OPERATION SUPERVISIO		RVISION	
LEVEL 2	SAMPLE MAKING OPERATION		CADCAM OPERATION	CUTTING OPERATION	EMBROIDERY OPERATION	PANEL PRINTING	SEWING OPERATION		FINISHING	OPERATIO	N
LEVEL 1	NO LEVEL		OFERATION	OPERATION	EMBEDDED TO LEVEL 2						
	Figure 4.2 Occupational Area Structures of Souring Operation Supervision for Toytile 9. Appeal Sector in Molevain										

Figure 1.2 Occupational Area Structures of Sewing Operation Supervision 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:	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 3 in Sewing Operation Supervision.

- 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 Supervision (Level 3) personnel must be competent in performing the following core competencies:

- Coat Sewing
- In-Line Apparel Sample Sewing
- In-Line Apparel Quality Control
- In-Line Sewing Operation Monitoring
- Sewing Operation Personnel Supervision

Optionally, the Sewing Operation Supervision (Level 3) personnel are competent in performing the following elective competencies:-

- Brassier Sewing
- Head Gear Sewing

6. WORKING CONDITIONS

6.1 Working environment

Sewing section supervisors maker typically work in standard shifts, 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 pattern approval timeline. They may also be exposed to prolong standing, walking around the operation area and leaning over tables. Most sewing supervisors carry out their work by themselves, although some interact with other supervisors and management staff.

6.2 Issues Related To Area of Work

Good health and stamina are important because these workers must stand a great deal. Prolong exposure to standing, walking 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.

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 apparels; 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 apparels, 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 due to a shortage of hands-on experts in the Apparel Pattern Making area. The same is also true in the public sector where this area seems to be currently experiencing a lack of professionals and well-

experienced 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 Supervisor
- Finishing Supervisor
- Sample Maker
- Cutting Supervisor

Other related industries with respect to employment opportunities are:

- Education (Fashion and Design)
- Fashion house/Boutique
- Fashion magazine
- Film Industry
- Automotive Industry
- 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 supervision is a skilled profession and many sewing operators have to work from basic. As for career advancement, most competent sewing operation supervision 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 executive 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:mkma@streamyx.com 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 Jalan Tun Razak,

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,

Switzerland

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;

Name (IC No.) : NabilahOoi Abdullah

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. Trans Pacific Industries SdnBhd
- ii. TaiWah Garments Industry SdnBhd

This Standard has been checked by MATAC Coordinator, DSD and approved by the members of Skills Development Endorser Committee (SDEC) on 15^h October 2014

The SDEC members listed bellow have 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)

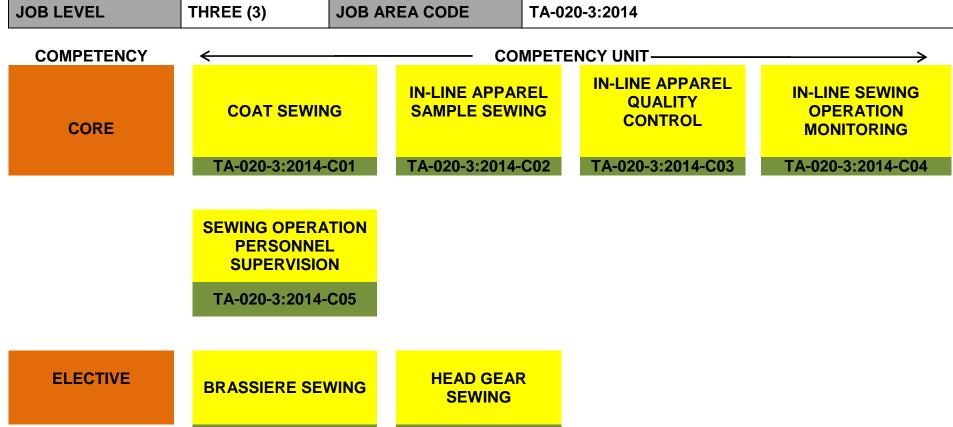
SEWING OPERATION SUPERVISION – LEVEL 3

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						
	Puan Thong Kwai May	Supervisor						
5.		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						
		Trainer						
8.	Puan Chong Kim Tai	Malaysian Textile and Apparel Centre (MATAC)						
		Batu Pahat, Johor						
	FACILITATOR							
1.	Puan Siti Salmah Binti Mohd Nor	HKN Consult Sdn. Bhd.						

COMPETENCY PROFILE CHART (CPC)

TA-020-3:2014-E01

SECTOR	TEXTILE & APPAR	TEXTILE & APPAREL				
SUB SECTOR	APPAREL MANUF	APPAREL MANUFACTURING				
JOB AREA	SEWING SECTION	SEWING SECTION				
NOSS TITLE	SEWING OPERATI	SEWING OPERATION SUPERVISION				
JOB LEVEL	THREE (3)	JOB AREA CODE	TA-020-3:2014			



TA-020-3:2014-E02

COMPETENCY PROFILE (CP)

Sub-Sector	APPAREL MANUFACTURING
Job Area	MASS PRODUCTION (SEWING SECTION)
NOSS Title	SEWING OPERATION SUPERVISION
Level	THREE(3)

CU Title	CU Code	CU Descriptor	CU Work Activities		Performance Criteria
1. Coat Sewing	TA-020-3: 2014-C01	Coat Sewing competency unit specifies the competency in coat sewing in accordance with job order, specifications	Prepare coat sewing requirements	1.1	Coat sewing production information interpreted according to buyer requirements
		and Standard Operating Procedure (SOP).		1.2	Coat specifications confirmed according to buyer requirements
		The person who is competent in coat sewing should be able to comprehend coat design, specifications, coat making		1.3	Work area, personal hygiene, health and safety confirmed according to Occupational Safety, Health and
		procedure, method, technique and Standard Operating Procedure (SOP).		1.1	Environment requirements Work station/machine setting confirmed and chairs positions adjusted according to work
		She/he should be able to organize coat sewing			flow and ergonomic deportment requirements
		requirements, prepare coat lining and interlining, create bodice contour, carry out pocket creation and attachment, attach coat outer shoulder, attach coat collar and label, attach coat outer sleeve, carry out lining and outer bodice attachment and		1.2	Sewing machine, components, tools and equipment setting confirmed, functions tested and thread tension/ coat sewing production requirements adjusted according to machine specifications, operation manual and safety

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
		create coat accessories. The outcome of this competency is to ensure the coat cut pieces and suitable accessories are assembled, attached and sewn as per requirements, sewing technique and designs.		requirements 1.3 Selected materials for lining, interlining, outer bodice pieces and accessories confirmed according to fabric type, pattern design and quality standards requirements 1.4 Materials arrangement on workstation confirmed according to work flow and Standard Operating Procedure
			2. Prepare coat lining and interlining	 2.1 Lining cut pieces specifications determined according to approved sample 2.2 Coat lining preparation procedure followed, method and technique applied according to coat specifications
				2.3 Lining pleats, back bodice centre placement confirmed and sewn according to sewing technique
				2.4 Lining shoulder, bodice piece sewing position confirmed and sewn according to sewing technique
				2.5 Sleeve cut pieces (left and right) joining points and hole confirmed and sewn according to sewing technique
				2.6 Sleeve dimension confirmed, placement at armhole

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				confirmed and sewn according to sewing technique 2.7 Reinforcement materials (Interlining/interfacing) specifications confirmed
				according to coat design 2.8 Interlining cut pieces placement on cut piece fabric confirmed and attached(sew/hot press/iron) according to job order and coat design
				2.9 Shape and condition of coat lining and reinforced fabric visually checked according to coat design and fabric type
			3. Create bodice contour	3.1 Darts placement and measurement accuracy confirmed according to coat specifications
				3.2 Bodice contour sewing procedure, method and technique applied according to coat specifications
				3.3 Darts sewn in sequence according to sewing technique
				3.4 Left and right back outer bodice panel assembled and sewn according to coat design and sewing technique
				3.5 Coat contour visually checked according to coat specifications

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			Carry out pocket creation and attachment	4.1 Pocket specifications determined according to approved sample4.2 Pocket creation and
				attachment procedure followed, method and technique applied according to coat specifications
				4.3 Pocket flap and welt created according to pocket creation method
				4.4 Pocket bag cut pieces folded and strengthened by manual/hot press machine according to pocket design and fabric
				4.5 Pocket bag placement on bodice panel confirmed and sewn completely according to pocket sewing method and technique
				4.6 Pocket opening marked and cut on interfolded pocket according to pocket design
				4.7 Completed pocket position alignment and appearance visually checked according to coat specifications
			5. Attach coat outer shoulder	5.1 Outer shoulder measurement data determined according to approved sample5.2 Outer shoulder attachment

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			6. Attach coat collar and label	procedure followed, method and technique applied according to coat specifications 5.3 Outer shoulder panel placement confirmed and sewn completely according to sewing technique 5.4 Outer bodice seam (left and right) sewn according to sewing technique 5.5 Outer back neck and front facing placement confirmed and sewn according to sewing technique 5.6 Attached outer shoulder finished appearance visually checked according to coat specifications 6.1 Collar specifications
				determined according to approved sample 6.2 Collar attachment procedure, method and technique applied according to coat specifications
				 6.3 Collar placement on outer bodice confirmed and sewn according to sewing technique 6.4 Label attachment procedure, method and technique applied
				6.5 Front facing to lining bodice placement confirmed and

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				sewn completely 6.6 Collar shape (sharps edge) created according to coat specifications 6.7 Collar edge line top stitched according to collar specifications 6.8 Attached collar and label appearance visually checked according to collar specifications
			7. Attach coat outer sleeve	 7.1 Outer sleeve specifications determined according to approved sample 7.2 Front and back bodice alignment accuracy confirmed according coat design 7.3 Outer sleeve attachment procedure, method and technique according to coat specifications 7.4 Outer sleeve panel placement confirmed and sewn according to sewing technique 7.5 Outer sleeve placement at armhole confirmed and sewn according to sewing technique and design 7.6 Attached outer sleeve finished appearance visually checked according to coat specifications

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			Attach lining and outer bodice attachment	8.1 Lining and outer bodice attachment procedure, method and technique applied according to coat specifications
				8.2 Bodice lining and outer front facing placement confirmed and sewn according to sewing technique
				8.3 Shoulder pad specifications confirmed according to coat specifications
				8.4 Shoulder pad attachment procedure, method and technique
				8.5 Shoulder pad sewing position/placement confirmed and sewn according to sewing technique
				8.6 Under arm lining and outer piece joining position confirmed and sewn according to sewing technique
				8.7 Sleeve opening lining and outer sleeve joining position confirmed and sewn according to sewing technique
				8.8 Bottom lining and outer bodice joining position confirmed and sewn according to sewing technique
				8.9 Lining and outer bodice interfolded according to coat

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				design 8.10 Slip hole at lining sleeve sewn according to sewing technique 8.11 Coat contour visually checked and fitting tested according to coat specifications
			9. Create coat accessories	 9.1 Accessories specifications confirmed and arranged according to job specifications 9.2 Accessories selection criteria confirmed according to coat
				speciation 9.3 Accessories attachment procedure, method and technique applied according to coat specifications
				9.4 Accessories placement accuracy measured according to coat specifications
				9.5 Accessories positioned confirmed and sewn according to sewing technique and machine specifications
				9.6 Accessories finished appearance confirmed, defects visually checked according to Quality Standard
				requirements 9.7 Defect/defective issues on coat quality classified, documented and reported to superior according to Standard Operating Procedure (SOP).

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
2. In-Line Apparel	TA-020-3:	In-Line Apparel Sample	Interpret in-line apparel sample	1.1 Apparel sample details (for
Sample Sewing	2014-C02	Sewing competency unit	sewing requirements	production sample) identified
Campie Cowing	2011 002	specifies the competency in		according to company
		producing apparel sample to		requirements
		be referred by sewing		1.2 Production documentations
		personnel in-line or at work		required for production sample
		area in accordance with job		development determined
		order, specifications, customer		according to company policy
		requirements and Standard		1.3 Information from job order, job
		Operating Procedure (SOP).		specifications and sample
		Sometimes in-line apparel		apparel specifications
		sample also called as		reviewed according to
		approved production sample.		production schedule and buyer
				approved sample
		The person who is competent		1.4 Special requirements of
		in in-line apparel sample		sample identified according to
		sewing should be able to comprehend the apparel		buyer and regulatory/authority requirements
		comprehend the apparel design, specifications, apparel		1.5 Apparel measuring data
		sample making procedure,		reviewed according to
		method, technique Standard		measuring manual
		Operating Procedure (SOP)		1.6 Materials specifications and
		and company policy.		defects details identified
				according to job specifications
		She/he should be able to		and quality standards
		interpret in-line apparel sample		requirements
		sewing requirements, prepare		1.7 Sewing method and
		in-line apparel sample sewing		technique identified according
		requirements, sew in-line		to job specifications, machine
		apparel sample, check in-line		operating manual and
		apparel sample output and		approved production sample
		acquire in-line apparel sample		1.8 Design (darts, pleats,
		approval.		accessories) placement
				confirmed according to

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
		The outcome of this competency is to ensure the		apparel specifications
		in-line apparel sample cut pieces are assembled, assembled and sewn as per requirements and designs.	Prepare in-line apparel sample sewing requirements	2.1 Work area, personal hygiene, health and safety confirmed according to Occupational Safety, Health and Environment requirements
				2.2 Work station/machine setting confirmed and chairs positions adjusted according to work flow and ergonomic deportment requirements
				2.3 Sewing machine, components, tools and equipment setting confirmed, functions tested and thread tension/ sample sewing production requirements adjusted according to machine specifications, operation manual and safety requirements
				2.4 Materials for sample development and accessories selected according to fabric type, pattern design and quality standards requirements
				2.5 Materials arranged on workstation according to work flow and Standard Operating Procedure
				2.6 Seam allowances determined according to apparel parts specifications

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				2.7 Special requirements (decoration design line, accessories, artwork) confirmed and art position identified according to buyer requirements
			3. Sew in-line apparel sample	3.1 Cut pieces measurement confirmed according to apparel specifications and design
				3.2 Apparel sewing procedure followed, method and technique applied according to apparel specifications /buyer requirements
				3.3 Cut pieces alignment accuracy confirmed, adjusted and sewn according to sewing technique
				3.4 Special requirements on design line from buyer placement and measurement confirmed and sewn according to apparel design and sewing technique
				3.5 Special requirements on country standards, safety and environment requirements compliances ensured according to Standard Operating Procedure (SOP)

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			Check in-line apparel sample output	 4.1 Apparel sample appearance, looks, shape fitting confirmed according to sample specifications 4.2 Accuracy in measurement confirmed by measuring according to buyer specifications 4.3 Discrepancies in apparel measurement detected according to quality standards requirements 4.4 Sample output performance documented according to Standard Operating Procedure (SOP) 4.5 Defect/defective issues on sample quality classified, documented and reported to superior/authorised personnel according to Standard Operating Procedure (SOP).
			5. Acquire in-line apparel sample approval	 5.1 Apparel sample approval criteria identified according to buyer/quality standards requirements 5.2 Authorised personnel/parties liaised with for sample approval according to company policy (Quality Assurance/Merchandiser) on production apparel sample /buyer sample

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				5.3 Apparel sample approval confirmed within timeline according to job order 5.4 Approved sample kept/stored in suitable environment, safe places such as sample room and approval information documented according to Standard Operating Procedure (SOP) and company policy.
3. In-Line Apparel Quality Control	TA-020-3: 2014-C03	In-Line Apparel Quality Control competency unit specifies the competency required on quality matters in sewing operation. The competency covers assuring in-line apparel quality compliances, provide support in company audit requirements, maintenance of work area and machineries as well as handling repair/reworks activities in accordance with regulatory/statutory body's requirements, quality auditor requirements, puyer specifications and expectations and company Standard Operation Procedure (SOP). The person who is competent in In-Line Apparel Quality Control should be able to	Assure in-line apparel quality compliances	 1.1 In-line apparel quality/sewing defect inspected according to quality inspection procedure, quality standards requirements and approved sample specifications 1.2 Sewing quality approval acquired from quality person in charge/department according to standards/company requirements 1.3 Quality meeting participated and quality issues reported for corrective action/countermeasure according to company/customer quality standards 1.4 Defect/defective issues investigated and responded to

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
		comprehend interpersonal skills, regulatory /statutory bodies requirements, audit exercises requirements, buyer specifications, Standard Operating Procedure (SOP) and company policy. She/he should be able to assure in-line apparel quality		quality team/authorised personnel within timeframe according to Standard Operating Procedure 1.5 Production quality improvement activities proposed and performance checked periodically according to quality standards
		compliances, participate in company audit process, monitor sewing area housekeeping and machineries preventive maintenance and arrange apparel repairs/ reworks.	2. Participate in company audit process	2.1 Standard Operating Procedure (SOP) / guideline/standards interpreted according to company policy. 2.2 Company audit requirements from customer/regulatory bodies (SIRIM)/authority checked according to audit
		The outcome of this competency is to ensure sewing operation quality matters complied with all requirements, activities related		procedures 2.3 Audit exercises, meetings participated according to audit and company requirements 2.4 Non-conformance issues on sewing production raised by
		to quality at sewing work area are properly controlled in order to produce quality finished apparel/output as per buyer requirements, meeting quality standards and fulfil all relevant regulatory/statutory bodies' requirements.	Monitor sewing area housekeeping and machineries preventive maintenance	auditor (regulatory bodies/customer) responded within timeframe according to company policy 3.1 Sewing machineries specifications(condition and function) identified according to sewing process

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				3.2 Housekeeping practises confirmed according to
				company policy 3.3 Machineries parts/components inclusive safety precautions elements (needle guard)conditions and functions confirmed according to machine operating manuals and safety requirements
				3.4 Preventive maintenance records verified according to Standard Operating Procedure (SOP)
				3.5 Issues and problems on machineries (oil leak, puckering) documented and reported to superior/authorised personnel
				3.6 Housekeeping and preventive maintenance activities supervised according to company procedure and regulatory/statutory bodies requirements
			4. Arrange apparel repairs/reworks	4.1 Degree of defect/defectives on apparels confirmed according to quality standards
				4.2 Corrective action to repair/rework planned and approval from management acquired according to Standard Operating Procedure

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 4.3 Knowledge and skills of personnel to carry out repair/rework activities identified according to personnel competency level 4.4 Repair/rework job assignment delegated to identified personnel in charge according to repair/rework plan 4.5 Status of repair/reworks activities documented and reported to management according to company policy.
4. In-Line Sewing Operation Monitoring	TA-020-3: 2014-C04	In-Line Sewing Operation Monitoring competency unit specifies the competency required to monitor activities implemented in sewing operation in accordance with production schedule, regulatory/ statutory body's requirements, buyer specifications and expectations and company Standard Operation Procedure (SOP). The person who is competent in in-line sewing operation monitoring should be able to comprehend buyer specifications, interpersonal	Monitor production schedule implementation	 1.1 Scope of work and job descriptions identified according to organization chart 1.2 Production schedule details and job order information interpreted and clarified with authorised department/personal according to customer requirements/order and approved sample 1.3 Number of skilled personnel reviewed according to job order and sewing work process 1.4 Job capacity (number of panels/pieces, batches,

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
CU Title	CU Code	skills, master production planning/schedule, production line balancing, manpower calculation, Standard Operating Procedure (SOP) and company policy. She/he should be able to monitor production schedule implementation, carry out sewing production inventory, monitor workplace health, safety, and environment practices and standards compliance, participate in production meeting and monitor production timeline. The outcome of this competency is to ensure sewing operation activities are monitored systematically and efficiently in order to achieve production target and maximise company performance as per company plan.	CU Work Activities	Performance Criteria production line) confirmed according job order 1.5 Production line balancing applied and performance checked according to line balancing plan and calculation formula 1.6 Jobs assignments delegations to subordinate checked and adjusted according to job functions and line balancing plan

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				1.7 Production performance/results based on implemented schedule identified, documented and reports generated according to reporting format
			Carry out sewing production inventory	2.1 Inventory items identified according to inventory procedure
				2.2 Inventory checking schedule identified according to company policy
				2.3 Threads, needles, tapes, accessories volume/quantity at sewing production area checked according to production capacity
				2.4 Inventory status/results documented and reported according to documentation procedure
			Monitor workplace health, safety, and environment practices and standards compliance	3.1 Personal hygiene, health and safety practices of subordinates/ authorised personnel compliances ensured with Standard Operating Procedure (SOP)

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria	
				3.2 Work place safety, health a environment requirements practices monitored accord to Occupational Safety, He and Environment Acts. (OSHA)/buyer regulatory bodies requirements 3.3 Potential hazard identified according to safety requirements	ding ealth
				3.4 Workstation and facilities organization such as 5S at safety ensured according ergonomic deportment requirements	to
				3.5 Electrical parts/component handling procedures follow by subordinate ensured according to safety requirements	
				3.6 Waste (chemical/general) disposal supervised accordance to regulatory/statutory body requirements and companion policy	dies
				3.7 Incidents and accidents reports compiled and submitted to relevant authorin an accurate and timely manner	ority

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			4. Participate in production meeting	4.1 Meeting preparations such as compilation of sewing operation documents and required information done according to meeting objectives, agenda and minutes
				4.2 Ideas and feedback presented in a clear and professional manner according to workplace procedures
				4.3 Relevant information on sewing production requirements clarified and confirmed accurately
				4.4 Effective interpersonal and communication skills demonstrated during meeting according to workplace procedures
			5. Monitor production timeline	5.1 Production target/output achievement ensured according to production master plan and job order
			,	5.2 Number of skilled resources and backup personnel arrangement ensured according to contingency plan

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				 5.3 Corrective action/counter measure on production line issues documented and recommended to superior for further action 5.4 Production improvement activities monitored and documented according to reporting procedure
5. Sewing Operation Personnel Supervision	TA-020-3: 2014-C05	Sewing Operation Personnel Supervision competency unit specifies the competency required to supervise personnel in sewing operation in accordance with human resources guidelines, labour law and company policy. The person who is competent in sewing operation personnel supervision should be able to comprehend interpersonal skills, human resources guidelines, labour law, Standard Operating Procedure (SOP) and company policy. She/he should be able to conduct operational briefing, monitor subordinate discipline and subordinate performance,	Conduct operational briefing	 1.1 Purpose and content of briefing determined according to workplace procedures/ job scope 1.2 Meeting logistics determined and related personnel notified according to workplace procedures 1.3 Briefing conducted in a systematic and professional manner according to workplace procedures 1.4 Effective interpersonal and communication techniques applied to elicit and encourage participation and contribution 1.5 Briefing minutes and outcomes recorded and presented to superior for review and further action according to workplace

CU Title	CU Code	CU Descriptor	CU Work	Activities		Performance Criteria
		conduct performance appraisal and arrange On Job Training				procedures
		(OJT).	2. Monitor subo	rdinate discipline	2.1	Workplace policies and
		The outcome of this				guidelines related to personnel discipline clearly
		competency is to ensure				communicated to subordinates
		sewing personnel disciplines			0.0	in an effective manner
		and performances are monitored efficiently and			2.2	Subordinates discipline (such as punctuality, attendance,
		training activities that related to				compliance with rules and
		sewing knowledge, skills and				regulations) observed and
		attitude are provided to				recorded according to
		subordinates in order to achieve production target and			2.3	workplace procedures Constructive feedback and
		maximise company			2.0	counselling given in a manner
		performance as per company				appropriate to the subordinate
		plan.				according to workplace
					0.4	procedures
					2.4	Disciplinary matters handled effectively within own limit of
						authority according to
						workplace procedures
					2.5	Unresolved disciplinary
						matters reported to relevant
					2.6	authority for further action Respect, integrity and
					۷.0	confidentiality maintained and
						demonstrated in handling
						disciplinary matters
					2.7	Actions taken and details

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				accurately recorded and
				submitted in a timely manner
			3. Monitor subordinate performance	3.1 Subordinates job tasks and target performance interpreted according to job description and specified key performance
				indicators (KPI) 3.2 Actual work status compared with target performance and feedback provided in a professional and timely manner
				3.3 Improvement recommended based on progress monitoring records according to workplace procedures
				3.4 Assistance provided, if required to expedite work progress
				3.5 Sewing operations monitored to ensure compliance with customer ,Health, Safety and Environments and regulatory/authority requirements
			4. Conduct performance appraisal	4.1 Appraisal objective (area for improvement, better communication, skills gap, etc

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
) identified according to company policy 4.2 Subordinate appraised according to appraisal procedure, company Key Performance Index (KPI) and objectives
				4.3 Appraisal results documented, and recommendation made according to company policies and labour law.
				4.4 Appraisal feedback provided to subordinates for improvement in a professional manner according to workplace procedures
				4.5 Types of rewards or recognition recommended in accordance with workplace procedures
				4.6 Training required recommended based on subordinates needs
			5. Arrange On Job Training	5.1 Training objective identified according to company policy
				5.2 Training programme identified and selected according to Training Needs Analysis (TNA) results, buyer needs

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				and objectives 5.3 Training programme details (type of training, participant, date, time, venue) identified
				according to training plan 5.4 Training facilities (audio visual, rooms/area, materials, etc) on skill prepared according to training programme
			,	5.5 Training programme execution confirmed according to training delivery mode (lecture, demonstration/ observation, practical, etc.)
				5.6 OJT effectiveness assessed based on feedback and subordinates' progress
				5.7 Subordinates' progress reports and related OJT documentation submitted in an accurate and timely manner
6. Brassiere Sewing	TA-020-3: 2014-E01	Brassiere Sewing competency unit specifies the competency in sewing women under garment that support upper	Check brassiere sewing requirements	Job order information identified according to production schedule Job specifications interpreted
		body (breast). Brassiere's sewing competency is important since the sewing technique can have a big		according to job order and production approved sample 1.3 Special requirements on brassiere confirmed according

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
		impact on how it fits on woman's unique body shape. The fitting on wearer depends on the specifications especially the cups dimension and styles.		to approved sample 1.4 Brassieres parts of section identified according to approved sample 1.5 Brassiere specifications identified according to buyer
		The person who is competent in brassiere sewing should be able to comprehend the design, specifications and brassiere sewing technique and Standard Operating Procedure (SOP).		requirements 1.6 Brassiere measuring data reviewed according to measuring manual 1.4 Materials specifications and defects on materials identified according to job specifications and quality standards
		She/he should be able to check brassiere sewing requirements, prepare brassiere sewing requirements, create brassiere cup, attach chest band, attach		requirements 1.5 Sewing method and technique identified according to job specifications, machine operating manual and production approved sample
		shoulder straps and attach brassiere accessories. The outcome of this competency is to ensure the	Prepare brassiere sewing requirements	2.1 Work area, personal hygiene, health and safety confirmed according to Occupational Safety, Health and Environment requirements
		brassiere cut pieces, cups, chest band, shoulder straps and decorative materials are assembled and sewn together as per requirements and		2.2 Work station/machine setting confirmed and chairs positions adjusted according to work flow and ergonomic deportment requirements
		designs.		2.3 Sewing machine, components, tools and equipment setting confirmed, functions tested

CU Code	CU Descriptor	CU Work Activities	Performance Criteria
			and thread tension/ brassiere sewing production requirements adjusted according to machine specifications, operation manual and safety requirements 2.4 Seam allowances determined according to Brassiere specifications 2.5 Materials inclusive accessories and decorative elements selected according to fabric type, pattern design and quality standards requirements 2.6 Materials arrangement on workstation confirmed according to work flow and Standard Operating Procedure
		3. Create brassiere cup	 3.1 Brassiere cup components details confirmed according to job order 3.2 Cup constructions/ creation procedure, method and technique according to brassiere specifications 3.3 Cup components attached/ assembled according to sewing technique and machine specifications 3.4 Underwire and additional
	CU Code	CU Code CU Descriptor	

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				seaming and stiffening panels (if applicable) as support fixed based on bra design according
				to machine specifications 3.5 Both side of bra cup joint at bridge/centre and zigzag stitching technique applied according to job order
				3.6 Bra cup construction finished appearance confirmed and defects visually checked according to quality standard requirements
			4. Attach chest band panels	4.1 Chest band/extension panel component details confirmed according to design and job order
				4.2 Chest band attachment procedure, method and technique according to brassiere specifications
				4.3 Chest band and cup joint strength checked according to bra specifications
				4.4 Chest band and bra cup support materials fixed/inserted at back wing (joint area between cup and chest band) according to

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				brassiere design 4.5 Chest band measurement accuracy confirmed according to bra design and
				measurement method 4.6 Accessories selected and fixed on correct side of chest band/wing edge according to brassiere specifications
				4.7 Chest band finished appearance confirmed and defects visually checked according to quality standard requirements
			5. Attach shoulder straps	5.1 Shoulder straps holder position accuracy confirmed and bar tacking/fixing applied according to brassiere specifications
				5.2 Shoulder straps attachment procedure, method and technique applied according to brassiere specifications
				5.3 Shoulder straps and accessories (buckle) assembled according to insertion technique and strap specifications 5.4 Buckle adjustment and

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				position confirmed according to buckle specifications 5.5 Attached shoulder straps measurements and fittings tested according to brassiere specifications
			6. Attach brassiere decorative materials	 6.1 Brassiere decorative materials (lace, button, ribbons) specifications identified and selected according to brassiere specifications and safety requirements 6.2 Decorative materials positioning confirmed and sewn according to job order and sewing technique 6.3 Decorated Brassiere finished appearance confirmed and checked according to Brassiere specifications and quality standard requirements 6.4 Defect/defective issues on brassiere category identified, defects documented and reported to superior for further action according to Standard Operating Procedure (SOP)

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
7. Head Gear Sewing	TA-020-3: 2014-E02	Head Gear Sewing	Check head gear sewing	1.1 Job order information
	2014-E02	competency unit specifies the competency in head gear	requirements	identified according to production schedule
		creation such as women head		1.2 Job specifications interpreted
		veil, cap, and hats.		according to job order and
		•		production approved sample
		The person who is competent		1.3 Special requirements on head
		in head gear should be able to		gear according to approved
		comprehend the design, specifications, head gear		sample 1.4 Head gear parts of section
		specifications, head gear sewing technique and		identified according to
		Standard Operating Procedure		approved sample
		(SOP).		1.5 Head gear specifications
				identified according to buyer
		She/he should be able to		requirements
		check head gear sewing		1.6 Head gear measuring data reviewed according to
		requirements, prepare head gear sewing requirements,		measuring manual
		create awning, create head		1.7 Materials specifications and
		gear and attach head gear		defects on materials identified
		accessories and decorative		according to job specifications
		materials.		and quality standards
		The outcome of this		requirements 1.8 Sewing method and
		The outcome of this competency is to ensure the		1.8 Sewing method and technique identified according
		head gear cut pieces and		to job specifications, machine
		embroideries are assembled		operating manual and
		and sewn as per requirements		production approved sample
		and design.		
			Prepare head gear sewing requirements	2.1 Work area, personal hygiene, health and safety confirmed
			requirements	according to Occupational
				Safety, Health and
				Environment requirements

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				2.2 Work station/machine setting confirmed and chairs positions adjusted according to work flow and ergonomic deportment requirements
				2.3 Sewing machine, components, tools and equipment setting confirmed, functions tested and thread tension/ head gear sewing production requirements adjusted according to machine specifications, operation manual and safety requirements
				2.4 Seam allowances determined according to head gear specifications
				2.5 Materials inclusive accessories and decorative elements selected according to fabric type, pattern design and quality standards requirements
				2.6 Materials arrangement on workstation confirmed according to work flow and Standard Operating Procedure
			3. Create awning	3.1 Awning shape cut pieces confirmed based on head gear design
				3.2 Interlining/interfacing and fabric specifications identified,

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				selected and inserted/fused according to design 3.3 Inserted interlining/interfacing in fabric attached (iron/hot press) alignment confirmed 3.4 Awning assembled and sewn according to awning design, sewing technique and machine specifications
			4. Assemble head gear pieces	4.1 Head gear panel confirmed and arranged according to head gear specifications
				4.2 Fabric centre joints made
				according to head gear design 4.3 Over locking technique applied at gears edge according to machine specifications (baby gauge)
				4.4 Head gear panel attached according to design, sewing technique and machine specifications
				4.5 Attached awning together with fabric alignment confirmed and sewn according to sewing technique
				4.6 Assembled head gear
				appearances shape and fitting tested according to head gear
				specifications
				4.7 Thread trimmed automatically/manually and
				excess materials removed

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				from finished head gear 4.8 Sewing defects (misalignment, puckering, stitch skipping, wobbling, uneven material feed) visually checked according to quality standards requirements 4.9 Discrepancies in measurement such as face dimension checked according to quality standards requirements
			Attach head gear accessories and decorative materials	5.1 Head-gear accessories and decorative materials details identified and selected according to head gear specifications and job order
				5.2 Accessories matching criteria interpreted according to design and job order
				5.3 Selected accessories placement/ fitting technique applied according to manuals/machine specifications
				5.4 Decorated head gear finished appearance confirmed and checked according to head gear specifications and quality
				standard requirements 5.5 Defect/defective issues on head gear category identified, defects documented and

CU Title	CU Code	CU Descriptor	CU Work Activities	Performance Criteria
				reported to superior for further action according to Standard Operating Procedure (SOP).

CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTI	TEXTILE & APPAREL							
SUB SECTOR		APPAI	APPAREL MANUFACTURING							
JOB AREA		MASS	MASS PRODUCTION (SEWING SECTION)							
NOSS TITLE		SEWING OPERATION SUPERVISION								
COMPETENCY UNIT	TITLE	COAT SEWING								
LEARNING OUTCOM		The person who is competent in this competency unit shall be able to assemble, attach and sew coat of pieces and suitable accessories as per requirements and designs in accordance with specifications, sew technique and Standard Operating Procedure (SOP). Upon completion of this competency unit, trainees to be able to: Prepare coat sewing requirements Prepare coat lining and interlining Create bodice contour Carry out pocket creation and attachment Attach coat outer shoulder Attach coat collar and label Attach coat outer sleeve Attach lining and outer bodice Create coat accessories			ecifications, sewing					
PRE-REQUISITE (if	applicable)	TA 00	00.0.				DAINING		SKILL	
COMPETENCY UNIT	ID	TA-02 2014-		LEVEL	3		RAINING URATION	220 hours	CREDIT	22.0
Work Activities	Related Knowle	dge		Related Skills			de/Safety/ onmental	Training Hours	Delivery Mode	Assessment Criteria
Prepare coat sewing requirements	i. Coat sewing production informulation such as: • Job order such Delivery • Quantity	i. Interpret coat sewing production information ii. Review coat such as: ry date ii. Interpret coat sewing production information ii. Interpret coat sewing production information ii. Thorough in interpreting and inquisitive inclarifying inclarifying ii. Interpret coat sewing iii. Coat segment in the production interpreting interpreting and inquisitive inclarifying inclarifying ii. Coat segment iii. Coat s				i. Coat sewing production information listed and specified according to				

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Batch number Colour Special requirements (button, zippers, belt, fasteners, shoulder pad) Job specifications such as: Coat types (Men's coat/Woman's coat) Size Style Sketch Measurement method Coat measuring data Production approved garment sample Materials specifications: Fabric type Fabric texture Colour shading Thread characteristics Colour Labels Defects elements on materials such as: 	health and safety requirements iv. Check work station/machine table and sewing tools setting v. Adjust chair height and distance from working table vi. Identify types of sewing machine vii. Identify types of machine component viii. Check machine specifications and functions setting ix. Identify types of sewing tools and equipment x. Determine coat sewing seam allowances xi. Select materials for pants bodice attachment xii. Arrange materials on work station	specifications ii. Detailed in checking coat sewing requirements iii. Resourceful in identifying tools, and materials iv. Adhere to work organization method and work procedure Safety: 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 Environmental: i. Adhere to	Related Skill 16	Related Skill Demonstration Observation	buyer requirements ii. Coat specifications described iii. Work area, personal hygiene, health and safety requirements specified and safety practices demonstrated iv. Work station/ machine table and sewing tools setting specified according to work flow v. Chair height and distance from working table adjusted according to ergonomic deportment requirements vi. Types of sewing machine and components

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Fabric/materials Colour Dirt/Oil Coat specifications such as: Design Style Dimension Length Width Opening Measurement tolerance (+/-) Colours Lining Interlining/ interfacing Sewing method and technique iii. Work area, personal hygiene, health and safety requirements Workplace cleanliness and tidiness Personal appearances Utilization of Personal Protective Equipment (PPE) Safety signage iv. Work station/ machine setting		environmental procedures when handling hazardous chemical/addit ive materials			listed vii. Machine specifications and functions setting described viii. Types of sewing tools and equipment listed and functions described ix. Coat seam allowances measurement specified x. Selected materials specified and reasons justified according to coat specifications xi. Materials inclusive coat cut pieces arrangement on work station demonstrated according to Standard

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
v.	 Needles Needles Threads stands Bobbin Bobbin case Machine safety devices (needle guard, wheel/belt cover) 					Operating Procedure xii. Quality standard references, manuals and procedures listed and explained according to quality standard requirements

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	(SPI)			110010		01100110
	` '					
	(SPI)		Environmental	Hours	Mode	Criteria
	kiii. Quality standards					
	requirements such as:					
	 Concept of "right 					
	the first time" /No					
	defects/ defective					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Measurement accuracy kiv. Relevant documents for Quality Standards 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					
Prepare coat lining and interlining	i. Cut pieces specifications such as: Parts Shoulder Sleeves Bodice piece Length Width Thickness Colour ii. Coat lining	 i. Check cut pieces specifications ii. Execute coat lining preparation process iii. Check reinforcement materials/interlining specifications iv. Execute interlining preparation process v. Utilise sewing tools and equipment in 	i. Concentrate on sewing path and position ii. Apply both hands during process of sewing iii. Apply correct coordination	Related Knowledge	Related Knowledge Lecture Question and Answer Group Discussion	i. Cut pieces specifications listed and described ii. Coat lining preparation process demonstrated iii. Reinforcement materials/interl ining

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	preparation procedure, method and technique Join lining pleats Assemble back bodice piece centre (left and right of bodice) Join shoulder Assemble bodice piece Join sleeve panel (left & right) and make hole at right or left sleeve Join sleeve to bodice armhole iii. Reinforcement materials/interlining specifications: fusible/ infusible, dimension, texture iv. Interlining preparation procedure Arrange cut pieces to be interlined Collar Front and back neck facing Front bodice (based on fabric)	lining and interlining preparation ix. Check coat lining and interlining appearance	between eyes and left –right hand motion iv. Both hands and fingers must be flexible when operating tiny and delicate parts 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	Related Skill 11		specifications listed and described iv. Interlining preparation process demonstrated v. Utilization of sewing tools and equipment demonstrated vi. Coat lining and interlining appearance explained and defects detected according to 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/	Training	Delivery	Assessment
Work Addivided		Troidica Gillio	Environmental	Hours	Mode	Criteria
	Pocket cover Coat bottom (if necessary) Place interlining on fabric Fuse interlining v. Sewing tools and equipment handling technique vi. Interlining reinforcement method: Fusing (hot press/iron) Sewing vii. Coat lining and interlining checking method such as: Visual Measure Fit on model/mannequin viii. Coat lining and interlining finished appearances: Shape in place Neatly slashed/trimmed and unsightly threads removed Cut opening dimension as per specifications Shape in place		ted area iii. Adhere to safety requirements in handling hot/sharp items Environmental: i. Adhere to environmental procedures when handling hazardous materials	Hours	Mode	Criteria
	 No foreign 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	materials from fabric No defective stitching such as: Puckering (ugly wrinkles) Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip)					
3. Create bodice contour	 i. Darts placement ii. Bodice contour measurement iii. Bodice contour sewing procedure, method and technique Create dart at back and front outer bodice piece Join left and right back outer bodice piece iv. Sewing tools and equipment handling technique v. Bodice contour appearance and defect checking method 	i. Check darts placement ii. Check bodice contour measurement iii. Execute bodice contour sewing process vi. Utilize sewing tools and equipment in contour creation iv. Check bodice contour finished appearances and defects	i. Concentrate on sewing path and position ii. Apply both hands during process of sewing iii. Apply correct coordination between eyes and left –right hand motion iv. Both hands and fingers must be flexible when	Related Knowledge 5 Related Skill 11	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Darts placement described ii. Bodice contour measurement checking demonstrated iii. Bodice contour sewing process demonstrated iv. Utilization of sewing tools and equipment in contour

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	vi. Bodice contour finished appearances and defects: • Shape in place • Neatly slashed/trimmed and unsightly threads removed • No defective stitching		operating tiny and delicate parts 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 safety requirements in handling hot/sharp items			creation demonstrated v. Bodice contour appearance explained and defects detected according to quality standards requirements vi. 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
			Environmental: i. Adhere to environmental procedures when handling hazardous materials			
Carry out pocket creation and attachment	 i. Pocket specifications ii. Pocket measurement data iii. Pocket creation and attachment procedure, method and technique such as: Create pocket flap and welt Create pocket bag Attach pocket flap to bodice panel Sew pocket bag to bodice piece Interfold pocket Mark pocket opening Cut opening Interfold pocket Top stitch/finishing on pocket opening vii. Sewing tools and equipment handling technique 	i. Check pocket specifications ii. Check pocket measurement data iii. Execute pocket creation and attachment process ix. Utilize sewing tools and equipment in pocket creation and attachment x. Check pocket attachment finished appearance and defect	i. Concentrate on sewing path and position ii. Apply both hands during 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 and delicate parts v. Adhere to quality standards	Related Knowledge 12 Related Skill 28	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Pocket specifications listed and described ii. Measurement data listed iii. Coat lining preparation process demonstrated iv. Reinforcement materials/ interlining specifications listed and described v. Interlining preparation process demonstrated vi. Utilization of sewing tools and equipment in

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
yiii. V.	Pocket attachment appearance and defect checking method Pocket attachment finished appearances:		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 safety requirements in handling hot/sharp items Environmental: i. Adhere to environmental procedures			pocket creation and attachment demonstrated vii. Attached pocket finished appearance explained and defects detected according to quality standards requirements 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
			when handling hazardous materials			
5. Attach coat outer shoulder	 i. Coat shoulder specifications ii. Shoulder measurement data iii. Shoulder attachment procedure, method and technique such as: Attach outer shoulder piece Sew outer bodice seam (left & right) Attach outer back neck facing to front facing iv. Sewing tools and equipment handling technique v. Outer shoulder attachment appearance and defect checking method vi. Outer Shoulder attachment finished appearances:	i. Check coat outer shoulder specifications ii. Check shoulder measurement data iii. Execute shoulder attachment process iv. Utilize sewing tools and equipment in outer shoulder attachment v. Check attached outer shoulder finished appearance and defect	i. Concentrate on sewing path and position ii. Apply both hands during 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 and delicate parts v. Adhere to quality standards requirements vi. Always practice good housekeeping inclusive	Related Knowledge 5 Related Skill 11	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Coat outer shoulder specifications listed and described ii. Measurement data listed iii. Coat outer shoulder attachment process demonstrated iv. Utilization of sewing tools and equipment in coat outer shoulder attachment demonstrated ix. Attached outer shoulder attachment demonstrated ix. Attached outer shoulder finished appearance explained and defects detected according to

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	and unsightly threads removed Joint measurement No defective stitching		personal hygiene Safety: 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 Environmental: i. Adhere to environmental procedures when handling hazardous materials			quality standards 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
6. Attach coat collar and label	 i. Collar specifications such as: Shape Sizes Colours Special requirements (buttons, tapes, fasteners,) ii. Collar measurement data iii. Collar creation and attachment procedure, method and technique Create collar Attach collar to outer bodice Attach front facing to lining bodice Create shape (slit and sharp) to collar Carry out collar finishing (top stitch completely, interfold collar) iv. Label specifications such as: Size (S,M,L,XL /1,2,3,4/ based on country) Brand Washable/non-washable 	i. Check collar specifications ii. Check collar measurement data iii. Execute collar creation and attachment process iv. Check label specifications v. Execute label attachment process vi. Utilize sewing tools and equipment in collar and label attachment vii. Check attached collar and label finished appearance and defect	i. Concentrate on sewing path and position ii. Apply both hands during 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 and delicate parts v. Adhere to quality standards requirements vi. Always practice good housekeeping inclusive personal hygiene Safety: i. Wear PPE	Related Knowledge 12 Related Skill 28	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Collar specifications listed and described ii. Measurement data listed iii. Collar creation and attachment process demonstrated iv. Utilization of sewing tools and equipment in Collar creation and attachment demonstrated xi. Attached collar and label finished appearance explained and defects detected according to quality standards requirements xii. Work area, personal hygiene, Health, Safety,

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Country origin code V. Label attachment procedure, method and technique Vi. Sewing tools and equipment handling technique Vii. Collar and label attachment appearance and defect checking method Vi. Collar and label attachment finished appearances: Shape in place Neatly slashed/trimmed and unsightly threads removed Label positions No defective stitching		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 Environmental: i. Adhere to environmental procedures when handling hazardous materials			Environment (HSE) requirements and good housekeeping practised at all times
7. Attach coat outer sleeve	 i. Outer sleeve specifications such as: Style Shape Size ii. Front and back bodice 	i. Check outer sleeve specifications ii. Check outer sleeve measurement data iii. Check sleeve cut piece placement on	Attitude: i. Concentrate on sewing path and position ii. Apply both	Related Knowledge 5	Related Knowledge Lecture Question and Answer	i. Outer sleeve specifications listed and described ii. Measurement data listed

Work Activities Related Kn	nowledge Related Sk	kills Attitude/Sa		Delivery Mode	Assessment Criteria
method ar Join or panel Place of to arm Sew jor sleeve piece V. Sewing too equipment technique vi. Outer sleet attachment appearance defect chet method vii. Outer sleet attachment appearance Shape Neatly slashet and unthread	iv. Execute Outer attachment procedure, and technique attachment vi. Check Outer finished appeared by the ce and acking and equipment outer sleeve attachment vi. Check Outer finished appeared by the ce and acking and defect vi. Check Outer finished appeared by the ce and acking and defect vi. Check Outer finished appeared by the ce and acking and defect vi. Check Outer finished appeared by the ce and acking and defect vi. Check Outer finished appeared by the ce and acking and defect vi. Check Outer finished appeared by the ce and acking and defect vi. Check Outer finished appeared by the ce and acking and defect vi. Check Outer finished appeared by the ce and acking a control of the ce and acking a contr	hands du process of sewing g tools iii. Apply cor coordinate between and left - sleeve hand mot	rrect tion eyes right tion ads ers when g tiny cate o sents good eping	Group Discussion Related Skill Demonstration Observation	iii. Sleeve cut piece placement on body piece demonstrated iv. Outer sleeve attachment process demonstrated v. Utilization of sewing tools and equipment in Outer sleeve attachment demonstrated vi. Attached Outer sleeve finished appearance explained and defects detected according to quality standards requirements vii. Work area , personal hygiene, Health, Safety, Environment (HSE)

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			hazardous chemical always kept in safe place/designa ted area iii. Adhere to safety requirements in handling hot/sharp items			requirements and good housekeeping practised at all times
			Environmental: i. Adhere to environmental procedures when handling hazardous materials			
8. Attach lining and outer bodice	 i. Bodice lining and outer front facing placement ii. Lining and outer bodice attachment procedure, method and technique iii. Shoulder pad specifications: Shape Dimension Thickness 	 i. Check bodice lining and outer front facing placement ii. Execute Lining and outer bodice attachment process iii. Check Shoulder pad specifications iv. Execute Shoulder pad attachment process v. Check sewing/joining positions 	i. Concentrate on sewing path and position ii. Apply both hands during process of sewing iii. Apply correct coordination between eyes	Related Knowledge 13	Related Knowledge Lecture Question and Answer Group Discussion	i. Bodice lining and outer front facing placement specified ii. Lining and outer bodice attachment process demonstrated iii. Shoulder pad specifications

Work Activities Related Knowledge	Related Skills	Attitude/Safety/ Training Environmental Hours	Delivery Mode	Assessment Criteria
Materials iv. Shoulder pad attachment procedure method and technique v. Shoulder pad sewing position/placement vi. Sewing/joining positions	vi. Execute sewing finishing process vii. Utilize sewing tools and equipment in lining and outer bodice attachment viii. Check coat finished appearance and defect	,		
Body contour Shape in place		place/designa ted area		hygiene, Health, Safety,

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Neatly slashed/trimmed and unsightly threads removed Shoulder pad secure, uneven pad position 		iii. Adhere to safety requirements in handling hot/sharp items			Environment (HSE) requirements and good housekeeping practised at all times
	No defective stitching		i. Adhere to environmental procedures when handling hazardous materials			
9. Create coat accessories	i. Coat accessories specifications: • Types • Buttons • Belts • Zippers • Fasteners • Size • Style • Positions • Colours ii. Accessories selection criteria: • Fabric type • Styles • Functions iii. Accessories placement/positions	 i. Check Coat accessories specifications ii. Review selected accessories iii. Determine accessories placement/positions on coat bodice iv. Execute Accessories attachment process v. Utilize Sewing tools and equipment in accessories placement vi. Check accessories finished appearance and defects vii. Record coat 	i. Concentrate on sewing path and position ii. Apply both hands during 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	Related Knowledge 3 Related Skill 7	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Coat accessories specifications listed and described ii. Accessories selection criteria specified iii. Accessories placement/ position on body piece specified iv. Accessories attachment process demonstrated v. Utilization of

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	on coat bodice iv. Accessories attachment procedure, method and technique v. Sewing tools and equipment handling technique vi. Accessories appearance and defect checking method vii. Accessories finished appearance such as: • Neatly slashed/ trimmed and unsightly threads removed • Securely fastened with neat stitches • Size fit, thickness and fabric thickness • Correct positioned • Equal distance/ good proportion between two ends of opening • No rough edges • No dented/cracked • Colours match with fabric • No defective stitching	completion status viii. Report defect/ defective issues on coat quality to superior	and delicate parts 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 safety requirements in handling hot/sharp items			sewing tools and equipment in accessories attachment demonstrated vi. Attached accessories finished appearance explained and defects detected according to quality standards requirements vii. Coat completion status and defects/ defective issues documented and report generated according to company policy viii. Work area , personal hygiene, Health, Safety, Environment

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	viii. Coat completeness status ix. Format of reporting x. Organizational chart/hierarchy xi. Company policy		i. Adhere to environmental procedures when handling hazardous materials			(HSE) requirements and good housekeeping practised at all times

Employability Skills

Core Abilities	Social Skills
01.07 Utilize database applications to locate and process information. 01.08 Utilize spreadsheets applications to locate and process information 01.09 Utilize business graphic application to process information 01.10 Apply a variety of mathematical techniques 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 03.10 Provide consultations and counselling. 03.13 Develop and maintain team harmony and resolve conflicts. 03.14 Facilitate and coordinate teams and ideas. 03.15 Liaise to achieve identified outcomes. 03.16 Identify and assess client/customer needs 04.07 Negotiate acceptance and support for objectives and strategies. 05.01 Implement project/work plans. 05.02 Inspect and monitor work done and/or in progress. 06.07 Develop and maintain networks.	 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 production documentation (Job order sheet, Job specifications sheet, Standard Operating Procedure, measuring manual)	1:1
 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
3. Production approved sample	As per required
4. Sample of fabrics	As per required
 Sample of coat bodice cut pieces (collar, pocket,sleeve, bodice piece, etc) 	1:5
6. Work station/table with adjustable chairs	1:5
7. Sewing machine (lockstitch, overlock, button holing, button)	1:5
8. Sewing machine component (needles, threads stands, bobbin, bobbin	1:25
case, machine safety devices (needle guard, wheel/belt cover)) 9. Sample of machine operating manual	As per required
10. Sewing materials (lining, interlining, threads, shoulder pad, zipper,	1:25
button,belt, etc)	1:1
11. Dummy model	1:5
12. Sewing tools (tweezers, scissors, measuring tape/marking device)	1:1
13. Equipment (hot press/iron/ironing table)	
14. Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc)	

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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE 8	TEXTILE & APPAREL						
SUB SECTOR		APPAREL	APPAREL MANUFACTURING						
JOB AREA		MASS PR	ODU	CTION (SEWIN	NG SI	ECTION)			
NOSS TITLE		SEWING (PEF	RATION SUPE	RVIS	ION			
COMPETENCY UNI	T TITLE	IN-LINE A	PPA	REL SAMPLE	SEW	ING			
LEARNING OUTCO	ME	The person who is competent in this competency unit shall be able to assemble, attach and sew apparel sample cut pieces for buyer or production as per requirements and designs in accordance with specifications, apparent sample sewing technique, Standard Operating Procedure (SOP). Upon completion of this competency untrainees will be able to: Interpret in-line apparel sample sewing requirements Prepare in-line apparel sample sewing requirements Sew in-line apparel sample Check in-line apparel sample output Acquire in-line apparel sample approval					specifications, apparel		
PRE-REQUISITE (if applicable)								
COMPETENCY UNIT	T ID	TA-020- 2014-C0	-	LEVEL	3	TRAINING DURATION	200 hours	SKILL CREDIT	20.0
Work Activities	Related Kno	wledge		Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Interpret in-line apparel sample sewing requirements	i. Apparel sam category: Buyer sa Production ii. Production documentation production sewing: Job orde	mple on sample ons for ample	sa ii. D do pr sa ii. D re v. C	etermine appare ample category letermine Productions for roduction sample ewing letermine special equirements check sample pecifications	etion or	i. Thorough in interpreting and inquisitive in clarifying job order ii. Detailed in checking product specifications	Related Knowledge 9	Related Knowledge Lecture Question and Answer	 i. Apparel sample category specified ii. Production documentations for production sample sewing listed and described iii. Special

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Sample production	v. Review apparel measuring data vi. Interpret Buyer measuring manuals vii. Determine Materials specifications viii. Identify Defects on materials ix. Identify Sample sewing method and technique x. Determine Design line placement		Related Skill 21		requirements specified iv. Sample apparel specifications described v. Apparel measuring data listed vi. Buyer measuring manuals defined vii. Materials specifications specified viii. Defects on materials categorised ix. Sample sewing method and technique confirmed according to apparel type x. Design line placement specified according to apparel specifications

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	vii. 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 • Labels • Size (S,M,L,XL /1,2,3,4) • Brand • Washable/nonwashable • Country origin code viii. Defects on materials such as: • Fabric/materials • Knots • Double thick or			Hours	MOGE	Onteria

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Colour Shade to shade panel Wash/Finish Outside of Approved Shade band Dirt/Oil Strong smell due to wash finish and/or residue Removable/ Non-removable stain ix. Sample sewing method and technique x. Design line placement: Darts Pleats Accessories Decorative/Artwork					
Prepare in-line apparel sample sewing requirements	 i. Work area, personal hygiene, health and safety requirements such as: Workplace cleanliness and tidiness Personal appearances Company uniform/dress code 	 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 	i. Resourceful in identifying tools, and materials ii. Adhere to work organization method and work procedure	Related Knowledge 5 Related Skill 11	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

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
iii.	 setting Arrangement Condition Height Adjustable chairs for personnel sitting positions Ergonomic deportment Work organization method (5S) Types of sewing machine such as: Lockstitch Overlock Cover stitch Interlock Buttonholing Button sewing Bartacking machine Zig-zag/Embroidery sewing 	 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 pants bodice attachment ix. Arrange materials on work station 	iii. Sharp tools such as scissors, tweezer always tied up to work station and needles kept in place iv. Always work in proper lighting at workstation Environmental: i. Adhere to environmental procedures when handling hazardous chemical/additi ve materials			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 pants bodice attachment selected according to sample specifications viii. Materials inclusive cut pieces

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Bobbin case Machine safety devices (needle guard, wheel/belt cover) v. Machine specifications and functions setting such as: Thread tension Production specifications requirements such as: Stitch per inch (SPI)			Hould	Mode	arrangement on work station demonstrated according to Standard Operating Procedure
	vi. Machine operation manuals vii. Types of sewing tools and equipment such as: • Tweezers • Scissors/shears • Snippers • Measuring marking device/tape • Fabric marking pen (washable) • Equipment: • Steam press • Iron • Ironing table viii. Seam allowances measurements					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	ix. Selection of apparel sample materials:					
3. Sew in-line apparel sample	 i. Apparel patterns information ii. Sample measurement data: Cut pieces measurements Sewing placement/positions Tolerance iii. Special requirements from buyers such as: Design line Country standards Safety Environmental friendly iv. Apparel sample sewing procedure, method and technique v. Sewing tools and equipment handling technique vi. Types of defective 	i. Check apparel patterns information ii. Check sample measurement data iii. Check special requirements from buyers iv. Execute apparel sample sewing process v. Utilize sewing tools and equipment in apparel sample sewing vi. Detect defective stitching and causes vii. Execute apparel defects alteration process (if applicable)	i. Concentrate on sewing path and position ii. Apply both hands during 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 and delicate parts v. Adhere to quality standards requirements vi. Always practice	Related Knowledge 36 Related Skill 84	Related Skill Demonstration Observation	i. Apparel patterns information explained ii. Sample measurement data categorised and listed iii. Special requirements from buyers specified iv. Apparel sample sewing process demonstrated v. Utilization of sewing tools and equipment demonstrated vi. Defective stitching inspected and causes identified vii. Apparel defect alteration

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	stitching: Puckering (ugly wrinkles) Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip) vii. Defective causes viii. Apparel defects alteration procedure and technique		good housekeeping inclusive personal hygiene Safety: iv. Wear PPE during operations v. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designate d area vi. Adhere to safety requirements in handling hot/sharp items Environmental: ii. Adhere to environmental procedures when handling hazardous materials			process specified according to Quality standards requirements iii. Work area , personal hygiene, Health, Safety, Environments (HSE) requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/	Training	Delivery	Assessment
	_		Environmental	Hours	Mode	Criteria
4. Check in-line apparel sample output ii.	Apparel sample appearance and defects checking method such as: Visual Measure Fit on model/ mannequin Test using torque and tension gauge	i. Check apparel sample finished appearance and defect ii. Check discrepancies in measurement iii. Determine Classification of defect/defective issues on apparel sample sewing quality iv. Determine apparel quality status v. Document apparel sample output results	i. Concentrate on sewing path and position ii. Apply both hands during 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 and delicate parts v. Adhere to quality standards requirements vi. Always practice good housekeeping inclusive personal hygiene Safety: i. Wear PPE during operations	Related Knowledge 8 Related Skill 16	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Apparel sample finished appearance explained and defect checking demonstrated ii. Measurement method to detect discrepancies demonstrated iii. Classification of defect/ defective issues on apparel sample sewing quality described according to Quality Standard Requirements iv. Apparel quality status categorised v. Apparel sample output results recorded according to documentation procedure vi. Work area , personal hygiene, Health, Safety, Environments (HSE)

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	No defective stitching iii. Measurement accuracy iv. Classification of defect/defective issues on apparel sample sewing quality such as: Critical Major Minor V. Apparel quality status: Acceptable Repairable Un-repairable Un-repairable Vi. Format of reporting Vii. Relevant production documentations, Quality standard references, manuals and procedures Visual Defect Reference Guide Apparel Defect Classification Manual Accessories card/buyer special requirements manual Documentation procedure Documentation procedure Defects work		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/sharp items Environmental: ii. Adhere to environmental procedures when handling hazardous materials			requirements and good housekeeping practised at all times

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	repair/rework procedure • Standard Operating Procedures (SOP)					
5. Acquire in-line apparel sample approval	 i. Apparel sample approval criteria such as: Apparel specifications Special requirements compliances Production terms and condition Quality Standards ii. Sample approval timeline iii. Authorised personnel/parties on apparel sample approval iv. Apparel sample approved procedure 	 i. Review apparel sample approval criteria ii. Determine sample approval timeline iii. Liaised with Authorised personnel/parties on apparel sample approval iv. Acquire apparel sample approval v. Prepare proposal on alterations vi. Keep approved apparel sample and related documents 	Attitude: i. Show high commitment in acquiring approval on time ii. Pro-active in acquiring sample approval iii. Adhere to quality standards requirements iv. Always practice good housekeeping inclusive personal	Related Knowledge 4 Related Skill 6	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Apparel sample approval criteria listed ii. Sample approval timeline explained iii. Discussion with Authorised personnel/ parties on apparel sample approval demonstrated iv. Apparel sample approval acquiring process explained v. Proposal on alterations prepared and presented according to

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	v. Proposal on alterations vi. Apparel sample and documents storing condition such as: • Suitable environment for various types of apparel materials • Safe and secure place • Designated area /sample room vii. Communication technique viii. Documentation procedure ix. Standard Operating Procedure x. Company policy		hygiene Safety: i. Adhere to safety rules and regulations			documentation procedure and communication technique vi. Apparel sample storing condition specified according to company policy vii. Work area , personal hygiene, Health, Safety, Environments (HSE) requirements and good housekeeping practised at all times

Employability Skills

Core Abilities	Social Skills
 01.07 Utilize database applications to locate and process information. 01.08 Utilize spreadsheets applications to locate and process information 01.09 Utilize business graphic application to process information 01.10 Apply a variety of mathematical techniques 01.11 Apply thinking skills and creativity. 02.09 Prepare flowcharts 02.10 Prepare reports and instructions. 02.11 Convey information and ideas to people. 03.09 Manage and improve performance of individuals. 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork

03.10	Provide consultations and counselling.	
03.13	Develop and maintain team harmony and resolve conflicts.	
03.14	Facilitate and coordinate teams and ideas.	
03.15	Liaise to achieve identified outcomes.	
03.16	Identify and assess client/customer needs	
04.07	Negotiate acceptance and support for objectives and strategies.	
05.01	Implement project/work plans.	
05.02	Inspect and monitor work done and/or in progress.	
06.07	Develop and maintain networks.	
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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)	1:1
2. 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
3. Production apparel sample	1:25
4. Sample of fabric	As per required
Sample of apparel cut pieces (collar, sleeve, front and back bodice, pocket, etc)	As per required
6. Work station/table with adjustable chairs	1:5
7. Sewing machine (lockstitch, overlock, blindstitch, interlock, coverstitch, button sewing, zig-zaq, bartack)	1:5
8. Sewing machine component (needles, threads stands, bobbin, bobbin case, Machine safety devices (needle guard, wheel/belt cover)	1:5
Sample of machine operating manual	1:25
10. Sewing materials (interlining, threads, zipper, button,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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- 3. Alan Baker, Stuart Dutton Composite Materials for Aircraft structures, , ISBN-1-56347-540-5
- 4. Chuck Hellier, McGraw-Hill Prof Med/Tech, 2001, Handbook of Non-Destructive Evaluations, ISBN-13: 978-007028121
- 5. Cindy Foreman, Jeppesen, 2002, Advanced Composites Book, ISBN-13 9780884873167
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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR TEXTIL				TEXTILE & APPAREL					
SUB SECTOR		APPARE	APPAREL MANUFACTURING						
JOB AREA		MASS PF	RODU	UCTION (SEWI	NG SI	ECTION)			
NOSS TITLE		SEWING	OPE	RATION SUPE	RVIS	ION			
COMPETENCY UNI	T TITLE	IN-LINE	APP.	AREL QUALITY	CON	TROL			
LEARNING OUTCO	control actrequireme completion Assure Particip Monito	 Participate in company audit process Monitor sewing area housekeeping and machineries preventive maintenance 							
PRE-REQUISITE ((if applicable)								
COMPETENCY UNI	T ID	TA-020 2014-C		LEVEL	3	TRAINING DURATION	180 hours	SKILL CREDIT	18.0
Work Activities	Related Kno	wledge		Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Assure in-line apparel quality compliances		s such as: of "right ime" /No defective ment / el quality	ii. E r r r iii. F iiv. U	Interpret quality standards requirements Employ In-line ap quality checking method Follow quality inspection schedutilise relevant production sampl	ule	i. Thorough and detailed in monitoring inline apparel quality ii. Pro-active in investigating quality issues iii. Factual when	Related Knowledge 16	Related Knowledge Lecture Question and Answer	i. Quality standards requirements defined and described ii. In-line apparel quality checking demonstrated according to method

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Visual Measure Fit on model/mannequin Tester/pulling gauge iii. In-line apparel quality inspection schedule iv. Relevant production samples, procedures and manuals on quality standards such as: Approved sample specifications Procedures Quality inspection procedure Sewing quality approval procedure Sewing quality approval procedure Defects work repair/rework procedure Standard Operating Procedures References/Manuals Visual Defect Reference Guide Apparel	procedures and manuals on quality standards v. Categorise apparel quality/sewing defects vi. Investigate apparel defective issues vii. Assure in-line apparel quality status kiii. Participate quality meeting kiv. Prepare quality issues report xv. Propose corrective action/countermeasure for quality improvements kvi. Check corrective action/countermeasure implementation effectiveness vii. Respond quality issues response time frame	present quality reports iv. Responsible in handling quality improvement actions v. Aware on impact of unattended quality issues vi. Adhere to quality standards requirements vii. Always practice good housekeeping inclusive personal hygiene Safety: i. Wear PPE during operation ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/designate d area	Related Skill 24	Related Skill Demonstration Observation	iii. Quality inspection schedule specified iv. Relevant production samples, procedures and manuals on quality standards described v. Apparel quality/sewing defects category recognised vi. Types of apparel defective detected and causes explained vii. In-line apparel quality status specified viii. Quality issues report generated and corrective action/ countermeasure for quality improvements presented in quality meeting ix. Quality issues response time

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Defect Classification Manual Accessories card/buyer special requirements manual Machine operation manuals V. Apparel quality/sewing defects category such as: Machine Materials Human Method Vi. Types of apparel defective stitching such as: Puckering (ugly wrinkles) Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip) Measurement exceeding tolerance Foreign materials on fabric		iii. Adhere to safety requirements in handling hot/sharp items Environmental: i. Adhere to environmental procedures when handling hazardous materials			frame and impacts specified x. Work area , personal hygiene, Health, Safety, Environments (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. Apparel defective investigation procedure viii. Completed apparel quality status such as: • Acceptable • Repairable • Un-repairable ix. Quality meeting participation x. Quality issues report format xi. Corrective action/countermeasure for quality improvements and effectiveness xii. Quality issues response time frame and impacts on production					
Participate in company audit process	 i. Production documentation for sewing operations readiness such as: Standard Operating Procedure (SOP) Guideline standards Records (check sheet, log books, forms) 	 i. Check production documentation for sewing operations readiness ii. Check quality audit schedule iii. Assure preparation of audit exercise iv. Liaise with audit bodies/parties v. Attend audit exercises meetings programme 	Attitude: i. Thorough and detailed in preparing quality audit process ii. Pro-active in responding auditors requirements iii. Responsible in audit exercise	Related Knowledge 18 Related Skill 42	Related Knowledge Lecture Question and Answer Related Skill Demonstration Observation	i. Production documentation for sewing operations readiness described ii. Quality audit schedule specified iii. Preparation of audit exercise listed and

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	iii. Quality audit schedule	vi. Respond to non-conformance issues within time frame	preparation (sewing section) iv. Aware on impact of non- conformance Safety: i. Wear PPE during operation 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/sharp items Environmental: i. Adhere to environmental procedures when handling hazardous materials			activities described iv. Audit bodies/ parties liaised according to technique v. Audit exercises meetings programme participated vi. Non- conformance issues responded and documented within time frame

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
3. Monitor sewing area housekeeping and machineries preventive maintenance	 i. Housekeeping and preventive maintenance details: Schedule Sewing workstation/ Production line Machine quantity Machine conditions ii. Sewing machineries specifications iii. Good housekeeping practices (such as 5S) at workplace iv. Machineries parts/ components inclusive safety precautions 	i. Check housekeeping and preventive maintenance details ii. Interpret sewing machineries specifications iii. Assure housekeeping practices at workplace iv. Check machineries parts/ components settings and functions v. Comply with machine operating manuals and safety requirements vi. Check types of machineries faults/malfunction vii. Document issues and problems on machineries	Environmental Attitude: i. Thorough and detailed in checking housekeeping and preventive maintenance activities ii. Pro-active in reporting machineries faulty/malfuncti on iii. Responsible in work organization such as 5S practices Safety: i. Wear PPE during operation ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe			
	Broken parts vii. Documentation on issues and problems		place/designate d area iii. Adhere to safety			n listed vii. Issues and problems on

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/	Training	Delivery	Assessment
4. Arrange	on machineries viii. Reporting procedure i. Type of apparel	i. Investigate type of	requirements in handling hot/sharp items Environmental: i. Adhere to environmental procedures when handling hazardous materials Attitude:	Related	Mode	machineries recorded and circulated to authorised parties/ personnel
apparel repairs/reworks	defects: Repairable defects Defect caused by faulty machines or material: Un-repairable defect defect ii. Degree of defect/ defectives on apparels such as: Critical - sharp points/edges, broken needle, loose components or other foreign item. Major - may affect usability or may interfere with performance Minor defect - will not affect usability	apparel defects ii. Determine degree of defect/defectives on apparels iii. Plan corrective action to repair/rework and seek approval from management iv. Select knowledgeable and skilled personnel to carry out repair/rework activities v. Delegate repair/ rework job assignment vi. Follow up status of repair/ reworks progress vii. Document repair/ reworks status	i. Thorough and detailed in checking housekeeping and preventive maintenance activities ii. Pro-active in reporting machineries faulty/malfuncti on iii. Adhere to quality standards requirements iv. Always practice good housekeeping inclusive personal hygiene	Knowledge 12 Related Skill 28	Knowledge Lecture Question and Answer Related Skill Demonstration Observation	defects listed and categorised ii. Degree of defect/defectives on apparels explained iii. Corrective action planning to repair/rework defects recommended, generated and approval from management acquired according to rework/repair procedures iv. Personnel with correct knowledge and skill to carry out

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	iii. Corrective action to repair/rework planned and approval from management such as: Returned to the operator that performed the operation. May be sent to a repair station for correction Might be downgraded to a Second, sold as scrap, or discarded iv. Knowledgeable and skills of personnel to carry out repair/rework activities V. Repair/ rework job assignment delegation to identified personnel in charge vi. Repair/ reworks progress vii. Status of repair/reworks viii. Documentation procedure ix. Reporting format x. Organization Chart xi. Company policy		Safety: i. Wear PPE during operation 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/sharp items Environmental: i. Adhere to environmental procedures when handling hazardous materials	Tiours	inoue and a second seco	repair/rework activities listed and selection justified v. Repair/ rework job assignment delegation demonstrated vi. Repair/ reworks progress and status reported according to documentation procedure, format and company policy vii. Work area, personal hygiene, Health, Safety, Environments (HSE) requirements and good housekeeping practised at all times

Employability Skills

Core A	bilities	Social Skills
01.07 01.08 01.10 01.11 02.09 02.10 02.11 03.10 03.11 03.13 03.14 03.15 03.16 03.17 04.06 04.07 05.01 05.02 06.07	Utilize database applications to locate and process information Utilize spreadsheets applications to locate and process information Apply a variety of mathematical techniques Apply thinking skills and creativity Prepare flowcharts Prepare reports and instructions Convey information and ideas to people Provide consultation and counselling Monitor and evaluate performance of human resources Develop and maintain team harmony and resolve conflicts Facilitate and coordinate teams and ideas Liaise to achieve identified outcomes Identify and assess client/customer needs Identify staff training needs and facilitate access to training Allocate work Negotiate acceptance and support for objectives and strategies Implement project/work plans Inspect and monitor work done and/or in progress Develop and maintain networks	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork Learning skills Leadership skills

Tools, Equipment and Materials (TEM)

ITEMS	RATIO (TEM : Trainees)
Computer with internet, Management Information System (MIS) and peripherals	1:5
2. Office facilities (printer, fax, machine, etc.)	1:25
3. Stationeries (pen, pencil, files, etc)	1:1
4. Sample of various company documentations (schedules, job order sheet,	1:1
job specifications sheet, Standard Operating Procedure, measuring	
manual, machine operation manuals, Visual Defect Reference Guide,	
Apparel Defect Classification Manual, Accessories card /buyer special	
requirements manual, defects work repair/rework procedure)	
5. Facilities (workstation/machine, adjustable chair, lights, etc)	1:5

6. Dummy model	1:25
7. Sample of fabrics (knits, woven, trim, etc)	As per required
8. Sample of work flow chart, organization chart	1:1
9. Sample of apparel cut pieces (collar, sleeve, front and back bodice,	1:1
pocket, etc)	
10. Sewing machine (lockstitch, overlock, blindstitch, interlock, coverstitch,	1:5
button sewing, zig-zaq, bartack)	
11. Sewing machine component (needles, threads stands, bobbin, bobbin	1:5
case, Machine safety devices (needle guard, wheel/belt cover))	
12. Sample of fabrics	As per required
13. Sewing materials (interlining, threads, zipper, button, etc)	As per required
14. Sewing tools (tweezers, scissors, measuring tape/marking device)	1:1
15. Equipment (hot press/iron/ironing table)	1:5
16. Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc	1:1

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CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	EXTILE & APPAREL						
SUB SECTOR		APPARE	L MAI	NUFACTURING	G				
JOB AREA		MASS PF	MASS PRODUCTION (SEWING SECTION)						
NOSS TITLE		SEWING	OPER	RATION SUPE	RVIS	ION			
COMPETENCY UNIT	T TITLE	IN-LINE S	SEWIN	NG OPERATIO	N MC	NITORING			
LEARNING OUTCO	ME	The person who is competent in this competency unit shall be able to monitor sewing operation systematically and efficiently in order to achieve production target and maximise company performance company plan. Upon completion of this competency unit, trainees will be able to: Monitor production schedule implementation Carry out sewing production inventory Monitor workplace health, safety, and environmental practices and standards compliance Participate in production meeting Monitor production timeline							
PRE-REQUISITE (if applicable)								
COMPETENCY UNIT	T ID	TA-020 2014-C		LEVEL	3	TRAINING DURATION	100 hours	SKILL CREDIT	10.0
Work Activities	Related Kno	wledge		Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Monitor production schedule implementation	Bodice plattachme	such as: reation chment attachment fece ent nd sleeve	ii. Ro Hi iii. Do sk iv. Ro int	etermine scope ork and job escriptions eview organization ierarchy chart etermine numbe killed personnel eview job order formation tilize production	on/ er of	i. Thorough and detailed in checking scope of work and job descriptions ii. Precise in calculating manpower quantity	Related Knowledge 5	Related Knowledge Lecture Question and Answer	i. Scope of work and job descriptions listed and described ii. Organization/Hie rarchy chart explained iii. Number of skilled personnel

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	attachment ii. Organization/Hierarchy chart iii. Number of skilled personnel iv. Job order information such as:	balancing information vi. Calculate and adjust numbers of manpower in sewing operation vii. Disseminate jobs assignments viii. Check production schedule implementation ix. Provide feedback on production outputs	iii. Non-bias in job delegations	Related Skill 11	Related Skill Demonstration Observation	specified iv. Job order information listed and described v. Production line balancing specified vi. Manpower calculation demonstrated vii. Jobs assigned according to job dissemination procedure viii. Performance/ results of implemented schedule explained ix. Feedback regarding production output reported to authorised personnel/ superior according to reporting format

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 x. Jobs assignments dissemination procedure xi. Production schedule details xii. Production schedule implementation performance/results such as: Line balancing Labour requirements and deficiencies Non-productive hours Work in process delays Technical maintenance Optimum utilization of time and raw materials xiii. Feedback on production outputs: Verbally Written 					
Carry out sewing production inventory	 i. Sewing production materials category such as: Sewing materials Consumable materials ii. Inventory checking 	 i. Determine sewing production materials category ii. Check inventory checking schedule iii. Determine inventory information to be 	i. Resourceful in locating materials ii. Adhere to inventory procedure	Related Knowledge 5	Related Knowledge Lecture Question and Answer	i. Sewing production materials category listed ii. Inventory checking schedule

Work Activities Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
planning such as:	checked iv. Support inventory checking activities v. Document inventory results vi. Report inventory status to superior/authorised personnel	iii. Sincere in reporting inventory status Safety: i. Wear PPE during operation 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/sharp items Environmental: i. Adhere to environmental procedures when handling hazardous materials	Related Skill 11	Related Skill Demonstration Observation	specified iii. Inventory information to be checked listed iv. Inventory checking activities demonstrated according to planning v. Inventory results recorded according to documentation procedure vi. Inventory status reported to superior/authoris ed personnel 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
3. Monitor workplace health, safety, and environmental practices and standards compliance	barricade Francomics	 i. Identify work place , personal Health, Safety and Environment requirements ii. Identify Regulatory/ Statutory/ Authority bodies iii. Check facilities, machineries , tools, equipment and materials organization iv. Identify types of potential hazards v. Execute accident preventive measures vi. Ensure electrical parts/component safe for operation vii. Ensure compliances of production waste disposal procedure viiii. Report incidents and accidents 	i. Thorough and detailed in identifying work place , personal Health, Safety and Environment requirements ii. Always alert on potential hazards iii. Adhere to relevant procedures Safety: i. Wear PPE during operation 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	Related Knowledge 6 Related Skill 14	Related Knowledge Lecture Question and Answer Related Skill Demonstration Observation	 i. Work place, Personal Health, Safety and Environment requirements specified and described ii. Regulatory/statu tory/ authority bodies listed and roles described iii. Organization of facilities, machineries , tools, equipment and materials demonstrated according to method (5S) iv. Types of potential hazards listed and cause specified v. Accident preventive measures explained vi. Electrical parts/ component handling procedures demonstrated

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Local Council iii. Facilities, machineries , tools, equipment and materials organization method (5S) iv. Types of potential hazards such as:		hot/sharp items and electrical components Environmental: i. Adhere to environmental procedures when handling hazardous materials			x. Production waste disposal demonstrated xi. Health, Safety and Environmental compliances monitoring methods employed xii. Incidents and accidents reported according to reporting format

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	vi. Electrical parts/component handling procedures vii. Production waste disposal procedure viii. Health, Safety and Environment (HSE) compliance monitoring methods • Using HSE checklist • Visual Manual Inspection (VMI) ix. Incidents and accidents reporting format					
Participate production meeting	 i. Purpose/objective of production meeting ii. Production meeting agenda: Operation improvement (such as new technology) Report on sewing output Production operation issues Quality problem vii. Variance between production actual output and target viii. Preparation for 	 i. Determine production meeting purpose/ objective ii. Determine production meeting agenda iii. Determine variance of production output iv. Analyse previous meeting minutes v. Prepare relevant documents and data vi. Propose improvement vii. Present Ideas and feedback 	i. Clear objective of the meeting ii. Well prepared and reports organized iii. Pro-active in discussion iv. Factual when present production reports v. Responsible in handling production issues vi. Professional in	Related Knowledge 6 Related Skill 14	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Production meeting purpose/ objective specified ii. Production meeting agenda specified iii. Production actual outputs and targets variance compared according to production planning iv. Previous meeting minutes contents specified and

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	production meeting ix. Meeting minutes format x. Actions to be attended xi. Ideas and feedback details xii. Presentation technique iii. Communication skill iv. Interpersonal skill		responding any issues raised during the meeting			action to be attended explained v. Relevant documents and data compiled and organized vi. Presentation of ideas and feedback for improvement demonstrated in a professional manner
5. Monitor production timeline	 i. Production target/output achievement ii. Production master plan and job order details iii. Number of skilled resources and backup personnel arrangement iv. Production contingency plan Manpower backup Overtime Hiring part timer Sub-cons v. Corrective action/counter measure on production line issues vi. Production improvement activities 	 i. Check production target/output achievement ii. Check production master plan and job order details iii. Review number of skilled resources and backup personnel arrangement iv. Prepare production contingency plan v. Propose corrective action/ counter measure on production line issues vi. Implement production improvement activities vii. Check effectiveness on 	i. Objective driven in ensuring production meets timeline ii. Always alert with production conditions to avoid down time iii. Pro active in solving production issues Safety: i. Adhere to safety	Related Knowledge 8 Related Skill 20	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Production target/ output achievement confirmed ii. Production master plan and job order details confirmed iii. Number of skilled resources and backup personnel arrangement confirmed iv. Production contingency plan prepared v. Corrective action/ counter measure

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	vii. Effectiveness on improvement plan	improvement plan	requirements during operations			on production line issues listed vi. Production improvement activities implemented vii. Improvement plan effectiveness measured and reported

Core Abilities		Social Skills
01.08 Utilize spr 01.10 Apply a va 01.11 Apply thin 02.09 Prepare fl 02.10 Prepare ro 02.11 Convey in 03.09 Manage a 03.10 Provide co 03.11 Monitor ar 03.13 Develop a 03.14 Facilitate 03.15 Liaise to a	atabase applications to locate and process information breadsheets applications to locate and process information variety of mathematical techniques nking skills and creativity flowcharts reports and instructions information and ideas to people and improve performance of individuals consultation and counselling and evaluate performance of human resources and maintain team harmony and resolve conflicts and coordinate teams and ideas achieve identified outcomes and assess client/customer needs	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork Learning skills Leadership skills

04.06	Allocate work	
04.07	Negotiate acceptance and support for objectives and strategies	
05.01	Implement project/work plans	
05.02	Inspect and monitor work done and/or in progress	
06.07	Develop and maintain networks	
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ITEMS	RATIO (TEM : Trainees)
Computer with internet, Management Information System (MIS) and peripherals	1:5
2. Office facilities (printer, fax, machine, etc.)	1:25
3. Stationeries (pen, pencil, files, etc)	1:1
4. Sample of various company documentations (schedules, job order sheet, job specifications sheet, Standard Operating Procedure, measuring manual, machine operation manuals,)	1:1
5. Facilities (workstation/machine, adjustable chair, lights, etc)	1:5
6. Dummy model	1:25
7. Sample of fabrics (knits, woven, trim, etc)	As per required
8. Sample of work flow chart, organization chart	1:1
9. Sample of apparel cut pieces (collar, sleeve, front and back bodice, pocket, etc)	1:1
10. Sewing machine (lockstitch, overlock, blindstitch, interlock, coverstitch, button sewing, zig-zaq, bartack)	1:5
11. Sewing machine component (needles, threads stands, bobbin, bobbin case, Machine safety devices (needle guard, wheel/belt cover))	1:5
12. Sewing materials (interlining, threads, zipper, button, etc)	As per required
13. Sewing tools (tweezers, scissors, measuring tape/marking device)	1:1
14. Equipment (hot press/iron/ironing table)	1:5
15. Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc)	1:1
16. List of information on regulatory/statutory/authority bodies	1:25
17. Sample of line balancing sheet	1:1
18. Sample of Inventory documents	1:1
19. Sample of production meeting relevant documents (meeting agenda, meeting minutes, production reports, etc)	1:1

- 1. Betsy Hosegood eds. (2006), Complete of Sewing, Darling Kindersley Limited London, ISBN 13, 978-1-4053-1295-0
- 2. Claire Shaeffer, Sewing for the Apparel Industry (2nd Edition), (2012), ISBN 978-0131884434
- 3. Clifford L Blodget (2013), The Sewing Machine Master Guide: From Basic to Expert, Blodget Publishing, LLC, ISBN 978-0-9900227-2-5
- 4. Denham, Carolyn (2014), Elementary Sewing Skills from Merchant & Mills, Collins & Brown, ISBN 9781909397415
- 5. Dorothy Wood (2002) Sewing Skills & Techniques, Lorenz Books, ISBN 878-923160800-0
- 6. E. Drudi (2002) Figure Drawing For Fashion Design, Pepin Press Publisher, ISBN 978-9054960805
- 7. Janine Manslow Kathryn Mclelvey, 2002, Fashion Design Process, Innovation & Practice- Blackwell ISBN 0-632-05599-5
- 8. Maurice J. Johnson, Evelyn C. Moore (2001), Apparel Product Development, Second Edition, Prentice Hall, New Jersey, ISBN 0-13-025439-8
- 9. Myra Coles (1999), The Sewing Machine Book, Hutchinson and Co. (Publishers) Ltd, ISBN 0-09-173009-0
- 10. Pati palmer, Gail Brown, (2004), Sewing with Sergers: The Complete Handbook for Overlock Sewing (Serging . . . from Basics to Creative Possibilities series), A Palmer/Pletsch Publication ISBN 978 0935278255
- 11. Phyllis G. Tortora, Robert S. Merkel (2007), Fairchilds's Dictionary of Textiles, 7th Edition, Fairchild Publications New York, ISBN 1-87005-707-3
- 12. Samuel Certo, (2012) Supervision: Concepts And Skill-Building, McGraw Hill, ISBN 978-0078029189

CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE 8	TEXTILE & APPAREL						
SUB SECTOR		APPAREL	MAN	NUFACTURII	NG				
JOB AREA		MASS PRO	ODUC	CTION (SEW	ING SI	ECTION)			
NOSS TITLE		SEWING C	PER	RATION SUP	ERVIS	ION			
COMPETENCY UNIT	T TITLE	SEWING P	PERS	ONNEL SUP	PERVIS	SION			
The person who is competent in this competency unit shall be able to monitor sewing section per and performances as well as to provide training in order to develop subordinates' knowledge, ski per company plan. Upon completion of this competency unit, trainees will be able to: Conduct operational briefing Monitor subordinate discipline Monitor subordinate performance Conduct performance appraisal Arrange On Job Training (OJT)									
PRE-REQUISITE (if applicable)								
COMPETENCY UNIT	T ID	TA-020-3 2014-C0		LEVEL	3	TRAINING DURATION	100 hours	SKILL CREDIT	10.0
Work Activities	Related Kno	wledge		Related Skills	s	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Conduct operational briefing	need • Target bit participa	thly i i i i i i i i i i i i i i i i i i i	fronce iii. Dice iii. Aiii. Aiv. Pice v. C	dentify briefing requency Determine brief content Arrange briefing Present briefing letails Clarify and reso problems/issue Collect feedbac	fing g g olve	Attitude: i. Clear objective of the meeting ii. Well prepared and reports organized iii. Pro-active in discussion iv. Factual when present	Related Knowledge 2	Related Knowledge Lecture Question and Answer	i. Briefing frequency specified ii. Briefing content described iii. Briefing arrangement demonstrated iv. Briefing details listed and

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	group	vii. Provide feedback viii. Record briefing minutes and outcomes	production reports v. Responsible in handling production issues vi. Professional in responding any issues raised during the meeting	Related Skill 6	Related Skill Demonstration Observation	presentation demonstrated v. Problems/issues clarification and solutions proposed according to company policy vi. Feedback collection and response demonstrated vii. Briefing minutes and outcomes documented according to recording procedure
Monitor subordinate discipline	 i. Guidelines on personnel discipline ii. Types of disciplines problems: Failure to notify of 	i. Interpret guidelines on personnel discipline ii. Determine authority limit of supervisors pertaining to personnel discipline	Attitude: i. Firm in decision making ii. Responsible in handling disciplinary	Related Knowledge 8	Knowledge Lecture	vii. Guidelines on personnel discipline defined and explained viii. Authority limit of supervisors

Work Activities Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
an absenceTheft Dishonesty Failure to follow departmental rules and company policy Rude or abusive language in workplace iii. Authority limit of supervisors pertaining to personnel discipline iv. Observation skills Feedback giving skills Vi. Basic counselling skills Vii. Types of disciplinary actions viii. Recording disciplinary actions taken: Format Content ix. Human Resources guidelines x. Labour law	iii. Observe subordinates behaviour iv. Give constructive feedback v. Counsel subordinates vi. Take appropriate disciplinary action vii. Report unresolved disciplinary matters viii. Record disciplinary matters and actions taken for future references/ profiles	issues iii. Professional in providing counselling and constructive feedback	Related Skill 16		pertaining to personnel discipline specified ix. Subordinates behaviour observation demonstrated x. Constructive feedback provided to subordinates demonstrated xi. Subordinates counselling session demonstrated xii. Appropriate disciplinary action described and execution demonstrated kiii. Unresolved disciplinary matters reports produced according to labour law kiv. Disciplinary matters and actions taken documented for future references/ profiles according

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
3. Monitor subordinate performance	 i. Sewing operation capacity • Scope of work • Number of skilled man power • Number of machineries ii. Production target and performance such as: 	i. Determine sewing operation capacity ii. Determine production target and performance iii. Observe actual performance iv. Compare actual and target performance	Attitude: i. Thorough and detailed in identifying scope of work and job descriptions ii. Non-bias in monitoring job	Related Knowledge 6 Related Skill 14	Related Knowledge Lecture Question and Answer Related Skill Demonstration	to Human Resources guidelines i. Sewing operation capacity described ii. Production target and performance specified iii. Actual and target performance
	Key Performance Indicator (KPI) Daily output No rejections iii. Methods for comparing target and actual performance iv. Methods of monitoring work progress v. Monitoring skills vi. Feedback skills	v. Determine performance gap vi. Propose recommendations for improvement	performance iii. Objective results driven in achieving target	14		compared and differences justified iv. Performance gap explained v. Proposal for improvement generated and presented to superior
4. Conduct performance appraisal	 i. Performance appraisal guidelines ii. Performance appraisal instruments iii. Target performance iv. Performance report format 	 i. Interpret performance appraisal guidelines ii. Utilise performance appraisal instruments iii. Determine subordinate 	Attitude: i. Thorough and detailed in identifying appraisal items ii. Well prepared and be	Related Knowledge 7	Related Knowledge Lecture Question and Answer	i. Performance appraisal guidelines defined and described ii. Utilization of performance

Work Activities Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
v. Methods of conducting appraisal such as: • Observation • Interview vi. Performance gap analysis vii. Using appraisal findings for: • Performance reward • Promotion • Recommendation for training • Recommendation for counselling	performance report format and criteria iv. Identify target performance v. Determine subordinate actual performance vi. Recommend types of rewards or recognition vii. Analyse performance gap viii. Propose follow-up actions ix. Prepare subordinate performance report	comfortable in harmony environment iii. Non-bias in appraising subordinate job performance iv. Objective results driven in achieving target	Related Skill 17	Related Skill Demonstration Observation	appraisal instruments demonstrated iii. Subordinate performance report format and criteria specified iv. Target performance listed v. Subordinate actual performance measured vi. Types of rewards or recognition listed and proposed vii. Performance gap specified and reasons justified viii. Follow-up actions proposal produced ix. Subordinate performance report generated according to appraisal

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
5. Arrange On Job Training (OJT)	i. Training objectives such as: Sewing skills improvement Sewing knowledge Soft skills Interpersonal skills ii. Training programme details such as: Type of training Participant Date Time Venue iii. Training facilities such as: Audio visual Rooms/area Materials iv. Types of training materials such as: Printed/Hardcopy Slides/Softcopy Online/E-Learning V. Training methods such as Lecture Shop talk Demonstration Discussion Problem-solving	i. Identify training objective ii. Prepare training materials iii. Organise training activities iv. Apply coaching skills v. Motivate subordinates vi. Provide feedback vii. Assess training effectiveness	Environmental Attitude: i. Objective results driven in conducting training programme ii. Systematic and organized in preparing training facilities iii. Adhere to work organization method (5S) Safety: i. Adhere to safety requirements at all time Environmental: i. Adhere to environmental procedures when handling hazardous materials	Related Knowledge 7 Related Skill 17	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Training objective listed ii. Training materials preparation explained iii. Training activities arrangement demonstrated iv. Subordinates motivational session conducted v. Feedback on training collected and discussed with relevant parties vi. Training effectiveness evaluated according to assessment methods vii. 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
	vi. Techniques of providing and obtaining feedback vii. Communication skills viii. Interpersonal skills ix. Motivational and counselling skills x. Methods for measuring training effectiveness					housekeeping practised at all times

Core Abilities	Social Skills
01.07 Utilize database applications to locate and process information 01.08 Utilize spreadsheets applications to locate and process information 01.10 Apply a variety of mathematical techniques 01.11 Apply thinking skills and creativity 02.09 Prepare flowcharts 02.10 Prepare reports and instructions 02.11 Convey information and ideas to people 03.09 Manage and improve performance of individuals 03.10 Provide consultation and counselling 03.11 Monitor and evaluate performance of human resources 03.12 Provide coaching/on-the job training 03.13 Develop and maintain team harmony and resolve conflicts 03.14 Facilitate and coordinate teams and ideas 03.15 Liaise to achieve identified outcomes 03.17 Identify staff training needs and facilitate access to training 04.06 Allocate work 04.07 Negotiate acceptance and support for objectives and strategies 05.01 Implement project/work plans 05.02 Inspect and monitor work done and/or in progress	 Communication skills Conceptual skills Interpersonal skills Multitasking and prioritizing Self-discipline Teamwork Learning skills Leadership skills

	MS	RATIO (TEM : Trainees)
1.	Computer with internet, Management Information System (MIS) and peripherals	1:5
2.	Office facilities (printer, fax, machine, etc.)	1:25
3.		1:1
4.	Sample of various company documentations (job order sheet, job specifications sheet, standard operating procedure, measuring manual, machine operation manuals, Visual Defect Reference Guide, Apparel Defect Classification Manual, Accessories card /buyer special requirements manual, defects work repair/rework procedure)	1:1
5.	Facilities (workstation/machine, adjustable chair, lights, etc)	1:5
6.	Dummy model	1:25
7.	1 ' ' ' ' '	As per required
	Sample of work flow chart, organization chart	1:1
9.	Sample of apparel cut pieces (collar, sleeve, front and back bodice, pocket, etc)	1:1
10.	Sewing machine (lockstitch, overlock, blindstitch, interlock, coverstitch, button sewing, zig-zaq, bartack)	1:5
11.	Sewing machine component (needles, threads stands, bobbin, bobbin case, machine safety devices (needle guard, wheel/belt cover))	1:5
12.	Sewing materials (interlining, threads, zipper, button, etc)	As per required
13.	Sewing tools (tweezers, scissors, measuring tape/marking device)	1:1
	Equipment (hot press/iron/ironing table)	1:5
15.	Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc)	1:1
16.	List of information on regulatory/statutory/authority bodies	1:25
17.	Labour Law/Acts	1:1
18.	Sample of production meeting relevant documents (meeting agenda, meeting minutes, production reports)	1:1
19.	Training facilities (Audio Visual, rooms, materials/ modules, etc)	1:25
20.	Sample of Company Key Performance Index (KPI) document	1:1
21.	Sample of appraisal documentation (subordinates list, subordinate profiles, appraisal form, etc)	1:1

- 1. Betsy Hosegood eds. (2006), Complete of Sewing, Darling Kindersley Limited London, ISBN 13, 978-1-4053-1295-0
- 2. Claire Shaeffer, Sewing for the Apparel Industry (2nd Edition), (2012), ISBN 978-0131884434
- 3. Clifford L Blodget (2013), The Sewing Machine Master Guide: From Basic to Expert, Blodget Publishing, LLC, ISBN 978-0-9900227-2-5
- 4. Denham, Carolyn (2014), Elementary Sewing Skills from Merchant & Mills, Collins & Brown, ISBN 9781909397415
- 5. Dorothy Wood (2002) Sewing Skills & Techniques, Lorenz Books, ISBN 878-923160800-0
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- 7. Janine Manslow Kathryn Mclelvey, 2002, Fashion Design Process, Innovation & Practice- Blackwell ISBN 0-632-05599-5
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- 9. Myra Coles (1999), The Sewing Machine Book, Hutchinson and Co. (Publishers) Ltd, ISBN 0-09-173009-0
- 10. Pati palmer, Gail Brown, (2004), Sewing with Sergers: The Complete Handbook for Overlock Sewing (Serging . . . from Basics to Creative Possibilities series), A Palmer/Pletsch Publication ISBN 978 0935278255
- 11. Phyllis G. Tortora, Robert S. Merkel (2007), Fairchilds's Dictionary of Textiles, 7th Edition, Fairchild Publications New York, ISBN 1-87005-707-3
- 12. Samuel Certo, (2012) Supervision: Concepts And Skill-Building, McGraw Hill, ISBN 978-0078029189

CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	& Al	PPAREL					
SUB SECTOR		APPAREL	L MA	ANUFACTURING					
JOB AREA		MASS PR	ODI	UCTION (SEWING	G SE	ECTION)			
NOSS TITLE		SEWING (OPE	RATION SUPER	VISI	ON			
COMPETENCY UNI	T TITLE	BRASSIE	RE	SEWING					
LEARNING OUTCO		The person who is competent in this competency unit shall be able to assemble and sew brassiers cups, chest band, shoulder straps and embroideries as per requirements and designs in access specifications and brassiere sewing technique and Standard Operating Procedure (SOP). Upon competency unit, trainees will be able to: Check brassiere sewing requirements Prepare brassiere sewing requirements Create brassiere cup Attach chest band panels Attach shoulder straps Attach brassiere decorative materials				s in accordance with			
PRE-REQUISITE (· · · · · · · · · · · · · · · · · · ·	TA-020-3	3:	LEVEL	3	TRAINING	100 hours	SKILL	40.0
COMPETENCY UNI	טו ו	2014-E0)1	LEVEL	3	DURATION	100 hours	CREDIT	10.0
Work Activities	Related Kno	wledge		Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Check brassiere sewing requirements	 i. Job order inf such as: Delivery Quantity Colour Special requirem ii. Brassiere present as a such as: 	date	ii. I ii. I iii. I r k	Identify job order information Interpret job specifications Determine brassiere measuring data fror buyer measuring manual		Attitude: i. Thorough in interpreting and inquisitive in clarifying job specifications ii. Detailed in checking	Related Knowledge	Related Knowledge Lecture Question and Answer	i. Job order information specified ii. Job specifications listed iii. Brassiere measuring data

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	schedule iii. Job specifications Brassiere types Contour Bralet Full coverage full cup Padded Plunge Balconet Sports/Athletic Dimension chest circumferences measurement system Design Size Buyer code Style Sketch Measurement method iv. Special requirements Purpose users condition) Safety for users Environmental safe Country's regulations / standards V. Parts of sections Bust cups single piece		Brassiere bodice attachment requirements	Related Skill 6		listed iv. Production approved brassiere sample specified v. Materials specifications specified vi. Defects on materials categorised vii. Brassiere specifications specified viii. Brassiere sewing method and technique described according to brassiere type

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	o double pieces (upper cup half, lower cup half) Bridge Cup Apex Cradle Hems Cup neck hems Under arm cup and wing hems Under band hem Chest band/wing Side seam Shoulder straps (with/without slider, ring) Straps platform Tape Eyelet (left wing) Hooks (right wing) Hooks (right wing) Strassiere specifications Materials types Stabilizing/elastic tape Moulded cup Bra grading	Related Skills				
	Pattern design (2D/ 3D)Labels					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Size Measurement tolerance Seam allowances measurements Vii. Brassiere measuring data Viii. Buyer measuring manuals ix. Materials specifications: Fabric types such as: Cotton Spandex Silk Satin Rayon Polyester Elastic Fabric texture Light Heavy Smooth coarse) Colour shading Thread specifications Size/ticket number Length Colour Labels		Environmental	Hours	IWIOGE	Criteria
	o Size (by				1	

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
Work Activities	country) Brand Washable/non-washable Country origin code X. Defects on materials such as: Fabric/materials Knots Double thick or thin yarns Colour Shade to shade panel Wash/Finish Outside of Approved Shade band Dirt/Oil Strong smell due to wash finish and/or residue	Related Skills				
	 Removable/ Non-removable stain Accessories condition and functionality xi. Brassiere sewing method and technique such as: Zig-zaq 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
2. Prepare brassiere sewing requirements	i. Work area, personal hygiene, health and safety requirements such as: • Workplace cleanliness and tidiness • Personal appearances • Company uniform/dress code policy • Utilization of Personal Protective Equipment (PPE) ii. Work station/ machine setting • Arrangement • Condition • Height • Adjustable chairs for personnel sitting positions • Ergonomic deportment • Work organization method (5S) iii. Types of sewing machine such as: • Lock sticth	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 Brassiere bodice attachment ix. Arrange materials on work station	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 to work station and needles kept in place ii. Always work in proper lighting at workstation Environmental: i. Adhere to environmental procedures when handling hazardous	Related Knowledge 2 Related Skill 6	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

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Bartack Overlock iv. Types of machine component such as: Needles Threads stands Bobbin Bobbin case Machine safety devices (needle guard, wheel/ belt cover) v. Machine specifications and functions setting such as: Thread tension Production specifications requirements such as: Stitch per inch (SPI) Speed vi. Machine operation manuals vii. Types of sewing tools and equipment such as: Tweezers Scissors/shears Snippers Measuring marking device/tape/ruler Fabric marking pen 					tools and equipment listed and functions described vii. Materials for Brassiere bodice attachment selected according to Brassiere specifications viii. 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
	(washable) • Equipment: • Steam press • Iron • Ironing table viii. Seam allowances measurements ix. Selection of brassiere materials: • Styles • Fabric • Purpose • Users x. Arrangement of materials on workstation					
3. Create brassiere cup	 i. Brassiere cup components details such as: Number of panels With/without art placement Types of panel Cup materials Cup sizes Fabrics types Stiffening materials (if applicable) ii. Brassiere cup measurement data iii. Cup constructions/ creation procedure, method and 	i. Check Brassiere cup components details ii. Check Brassiere cup measurement data iii. Execute Brassiere cup creation process iv. Utilize sewing tools and equipment in Brassiere cup creation v. Check Brassiere cup finished appearance and defect	i. Concentrate on sewing path and position ii. Apply both hands during 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	Related Knowledge 12 Related Skill 24	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Brassiere cup listed and described ii. Measurement data listed iii. Coat lining preparation process demonstrated iv. Reinforcement materials/ interlining specifications listed and described v. Brassiere cup creation process

	4		Attituda/Cafaty/	Training	Dolivon	Assessment
Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Hours	Delivery Mode	Assessment Criteria
	technique: Utilization of special machineries Conventional sewing process iv. Sewing tools and equipment handling technique V. Appearance and defects checking method such as: Visual Measure Fit on model/mannequin vi. Brassiere cup finished appearances: Shapes in place Neatly slashed/trimmed and unsightly threads removed Colours match with fabric No defective stitching such as: Puckering (ugly wrinkles) Wobbling stitch (irregular stitching) Stitch skipping (stitches sometimes skip		and delicate parts 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/designate d area iii. Adhere to safety requirements in handling hot/sharp items	nouis	IWIOGE	demonstrated vi. Utilization of sewing tools and equipment in Brassiere cup creation demonstrated vii. Brassiere cup finished appearance explained and defects detected according to quality standards requirements viii. Work area , personal hygiene, Health, Safety, Environments (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. Attach chest band panels	i. Chest band/wing panel details such as: Number of panels Measurement Shapes Accessories types and suitability hook and eye tape fastener Accessories placement Labels placement Labels placement Labels placement Support area to be strengthened such as: Back wing (joint area between cup and chest band) Bra cup bridge iv. Chest band attachment procedure, method and technique v. Accessories position Eyelet tape (eyelet	i. Check chest band/wing panel details ii. Check chest band/wing measurement data iii. Check support area to be strengthened iv. Execute chest band/wing attachment process x. Check accessories position v. Execute accessories attachment process vi. Utilize sewing tools and equipment chest band/wing and accessories attachment vii. Check chest band/wing and accessories finished appearance and defect	ii. Adhere to environmental procedures when handling hazardous materials Attitude: i. Concentrate on sewing path and position ii. Apply both hands during 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 and delicate parts v. Adhere to quality standards requirements vi. Always practice good housekeeping inclusive	Related Knowledge 8 Related Skill 16	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Chest band/wing panel details listed and described ii. Measurement data listed iii. Support area to be strengthened specified iv. Chest band/wing panel attachment process demonstrated v. Accessories position specified vi. Accessories attachment process demonstrated vii. Utilization of sewing tools and equipment inChest band/wingand accessories

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	always on left wing) • Hook tape (hook always on right wing) vi. Accessories sewing procedure, method and technique vii. Sewing tools and equipment handling technique viii. Attached chest band appearance and defects checking method ix. Chest band finished appearances • Attached chest band and cup strength • Measurement accuracy • Neatly slashed/trimmed and unsightly threads removed		personal hygiene Safety: i. Wear PPE during operations 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/sharp items Environmental: i. Adhere to environmental procedures when handling hazardous materials			attachmentdemo nstrated ix. Chest band/ wing and accessories finished appearance explained and defects detected according to brassiere specifications and quality standards requirements
5. Attach shoulder straps	i. Shoulder straps materials details• Materials type• With/without straps	i. Check shoulder straps materials detailsii. Determine straps and cups/chest band wing	Attitude: i. Concentrate on sewing path and position	Related Knowledge 5	Related Knowledge Lecture	i. Shoulder straps materials details listed and described

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	accessories: Slider /buckles Strap holders/ring Sizes Measurements ii. Straps and cups/chest band wing panel joining position iii. Straps attachment procedure, method and technique iv. Shoulder straps buckle/slider and strap holder/ring placement and functionality v. Sewing tools and equipment handling technique xi. Shoulder straps finished appearances Attached buckle and holder strength Measurement accuracy Neatly slashed/trimmed and unsightly threads removed Buckle adjustment vi. Appearance and defects checking method	panel joining position iii. Execute shoulder straps attachment process iv. Fix slider/buckles and straps holder/ring (if applicable) v. Check shoulder straps buckle/slider and strap holder/ring placement and functionality vi. Utilize sewing tools and equipment in shoulder straps attachment vii. Check shoulder straps finished appearance and defect	ii. Apply both hands during 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 and delicate parts 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	Related Skill 11	Question and Answer Group Discussion Related Skill Demonstration Observation	ii. Straps and cups/chest band wing panel joining position specified iii. Shoulder straps attachment process demonstrated iv. Slider/buckles and straps holder/ring fixing process demonstrated v. Utilization of sewing tools and equipment in shoulder straps with/without accessories attachment demonstrated vi. Shoulder strap finished appearance explained and defects detected according to brassiere specifications and quality standards requirements

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			chemical always kept in safe place/designate d area iii. Adhere to safety requirements in handling hot/sharp items Environmental: i. Adhere to environmental procedures when handling hazardous materials			vii. Work area , personal hygiene, Health, Safety, Environments (HSE) requirements and good housekeeping practised at all times
6. Attach brassiere decorative materials	i. Brassiere decorative materials details such as: • Types • lace • button • ribbons • embroideries • Size • Placement • Functions/suitability ii. Decorative materials placement /position iii. Decorative materials attachment procedure, method and technique	 i. Check brassiere decorative materials details ii. Determine decorative materials placement/positions on Brassiere parts iii. Execute decorative materials attachment process iv. Utilize Sewing tools and equipment in decorative materials attachment v. Check decorated brassiere finished 	i. Concentrate on sewing path and position ii. Apply both hands in a flexible manners when operating tiny parts iii. Apply correct coordination between eyes and left –right hand motion iv. Adhere to	Related Knowledge 2 Related Skill 6	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Brassiere decorative materials details listed and described ii. Decorative materials placement/ positions on brassiere parts specified iii. Decorative materials attachment process demonstrated

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	iv. Sewing tools and equipment handling technique v. Decorated brassiere finished appearances • Materials sewing neatness • Shape in place • Colour matching • Neatly slashed/ trimmed and unsightly threads removed vi. Brassiere appearance and defects checking method vii. Classification of defect/defective issues on coat sewing quality such as: • Critical • Major • Minor viii. Completion status of brassiere: • Acceptable • Repairable • Un-repairable ix. Documentation procedure x. Format of reporting xi. Quality standard	appearance and defects vi. Record brassiere sewing completion status	quality standards requirements v. Always practice good housekeeping inclusive personal hygiene Safety: 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/sharp items Environmental: i. Adhere to	Hours		iv. Utilization of sewing tools and equipment in decorative materials attachment demonstrated v. Decorated brassiere finished appearance explained and defects detected according to brassiere specifications and quality standards requirements vi. Brassiere completion status documented and report generated according to company policy vii. Work area , personal hygiene, Health, Safety, Environments (HSE) requirements and good housekeeping
	references, manuals					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	and procedures		environmental procedures when handling hazardous materials			practised at all times

Core Abilities	Social Skills
 Utilize database applications to locate and process information. Utilize spreadsheets applications to locate and process information Utilize business graphic application to process information Apply a variety of mathematical techniques Apply thinking skills and creativity. Prepare flowcharts Convey information and ideas to people. Manage and improve performance of individuals. Provide consultations and counselling. Develop and maintain team harmony and resolve conflicts. Facilitate and coordinate teams and ideas. Liaise to achieve identified outcomes. Identify and assess client/customer needs Negotiate acceptance and support for objectives and strategies. Implement project/work plans. Inspect and monitor work done and/or in progress. Develop and maintain networks. 	 Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork

ITE	MS	RATIO (TEM : Trainees)
1.	Sample of company documentation procedure (Job order sheet, Job specifications sheet, Standard Operating Procedure, measuring manual)	1:1
2.	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
3.		1:25
4.	Sample of fabrics (cotton, polyester, satin, etc)	As per required
5.	Sample brassiere parts section (cup, chest band/wing, straps)	As per required
6.		1:5
	Sewing machine (lockstitch, overlock, blindstitch)	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, hooks, eyelet tape,ring, buckle/slider,etc)	As per required
11.	Decorative materials (ribbon, lace, embroderies)	As per required
12.	Dummy model	1:25
13.	Sewing tools (tweezers, scissors, measuring tape/marking device)	1:1
14.	Equipment (hot press/iron/ironing table)	1:5
15.	Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc)	1:1

- 1. Betsy Hosegood eds. (2006), Complete of Sewing, Darling Kindersley Limited London, ISBN 13, 978-1-4053-1295-0
- 2. Claire Shaeffer, Sewing for the Apparel Industry (2nd Edition), (2012), ISBN 978-0131884434
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- 8. Maurice J. Johnson, Evelyn C. Moore (2001), Apparel Product Development, Second Edition, Prentice Hall, New Jersey, ISBN 0-13-025439-8
- 9. Myra Coles (1999), The Sewing Machine Book, Hutchinson and Co. (Publishers) Ltd, ISBN 0-09-173009-0
- 10. Pati palmer, Gail Brown, (2004), Sewing with Sergers: The Complete Handbook for Overlock Sewing (Serging . . . from Basics to Creative Possibilities series). A Palmer/Pletsch Publication ISBN 978 0935278255
- 11. Phyllis G. Tortora, Robert S. Merkel (2007), Fairchilds's Dictionary of Textiles, 7th Edition, Fairchild Publications New York, ISBN 1-87005-707-3

CURRICULUM of COMPETENCY UNIT (CoCU)

SECTOR		TEXTILE	EXTILE & APPAREL							
SUB SECTOR		APPARE	L MA	ANUFACTURING						
JOB AREA		MASS PR	ODU	UCTION (SEWING SE	ECT	ION)				
NOSS TITLE		SEWING	SEWING OPERATION SUPERVISION							
COMPETENCY UNI	IT TITLE	HEAD GEAR SEWING								
LEARNING OUTCO)ME	The person who is competent in this competency unit shall be able to assemble/join and sew head gear cut as per requirements and design in accordance with specifications head gear sewing technique and Sta Operating Procedure (SOP). Upon completion of this competency unit, trainees will be able to: Check head gear sewing requirements Prepare head gear sewing requirements Create awning Assemble head gear pieces Attach head gear accessories and decorative materials								
PRE-REQUISITE	(if applicable)									
COMPETENCY UNI	IT ID	TA-020 2014-E		LEVEL 3		TRAINING DURATION	100 hours	SKILL CREDIT		10.0
Work Activities	Related Know	wledge		Related Skills		Attitude/Safety/ Environmental	Training Hours	Delivery Mode		Assessment Criteria
 1. Check head gear sewing requirements i. Job order information such as: Delivery date Quantity Colour Special requirements ii. Interpret job specifications iii. Determine head gear measuring data from buyer measuring manual iv. Check production approved garment sample 		At i.	titude: Thorough in interpreting and inquisitive in clarifying job specifications Detailed in checking head gear bodice attachment requirements	Related Knowledge 2 Related Skill 6	Related Knowledge Lecture Question and Answer Related Skill Demonstration Observation	i. ii. iii.	Job order information specified Job specifications listed Head gear measuring data listed Production approved			

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	 Dimension 	v. Identify materials specifications vi. Identify defects on materials vii. Interpret head gear specifications viii. Determine head gear sewing method and technique				garment sample specified v. Materials specified vi. Defects on materials categorised vii. Head gear specifications specified viii. Head gear sewing method and technique described according to Head gear type

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Labels Size Measurement tolerance Seam allowances measurements vii. Head gear measuring data viii. Buyer measuring manuals ix. Materials specifications: Fabric types such as: Cotton Spandex Silk Satin Rayon Polyester Elastic Fabric texture Light Heavy Smooth coarse) Colour shading Thread specifications Size/ticket number Length		Environmental	Hours	Mode	Criteria
	ColourLabels					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	o Size (by					
	country) o Brand					
	o Brand o Washable/non-					
	washable					
	Country origin					
	code					
	x. Defects on materials					
	such as:					
	 Fabric/materials 					
	o Knots					
	 Double thick or 					
	thin yarns					
	Colour					
	 Shade to shade 					
	panel					
	o Wash/Finish					
	Outside of					
	Approved					
	Shade band					
	Dirt/Oil Strong amall					
	 Strong smell due to wash 					
	finish and/or					
	residue					
	o Removable/					
	Non-removable					
	stain					
	Accessories					
	condition and					
	functionality					
	xi. Head gear sewing					
	method and technique					
	such as:					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Top stitchingOver locking (baby gauge)Coverstich					
Prepare head gear sewing requirements	 i. Work area, personal hygiene, health and safety requirements such as: Workplace cleanliness and tidiness Personal appearances Company uniform/dress code policy Utilization of Personal Protective Equipment (PPE) ii. Work station/ machine setting Arrangement Condition Height Adjustable chairs for personnel sitting positions Ergonomic deportment Work organization method (5S) 	 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 viii. Identify types of sewing tools and equipment viiii. Select materials for Head gear bodice attachment ix. Arrange materials on work station 	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 to work station and needles kept in place ii. Always work in proper lighting at workstation Environmental: i. Adhere to environmental procedures	Related Knowledge 2 Related Skill 6	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

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	iii. Types of sewing		when handling			and functions
	machine such as:		hazardous			setting described
	 Lock sticth 		chemical/additi			vi. Types of sewing
	Over lock		ve materials			tools and
	iv. Types of machine					equipment listed
	component such as:					and functions
	 Needles 					described
	 Threads stands 					vii. Materials for
	Bobbin					head gear
	 Bobbin case 					bodice
	 Machine safety 					attachment
	devices (needle					selected
	guard, wheel/					according to
	belt cover)					Head gear
	v. Machine specifications					specifications viii. Materials
	and functions setting					inclusive cut
	such as:					pieces
	 Thread tension 					arrangement on
	 Production 					work station
	specifications					demonstrated
	requirements such					according to
	as:					Standard
	 Stitch per inch 					Operating
	(SPI)					Procedure
	o Speed					
	vi. Machine operation					
	manuals					
	vii. Types of sewing tools					
	and equipment such					
	as:					
	• Tweezers					
	Scissors/shears					
	 Snippers 					
	 Measuring marking 					

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	device/tape/ruler Fabric marking pen (washable) Equipment: Sequipment: Fabric marking pen (washable) It con the sequipment of materials on workstation					
3. Create awning	i. Awning shape cut pieces details	 i. Check awning shape cut pieces details ii. Check Interlining/interfacing and fabric specifications iii. Check awning measurement data iv. Execute awning creation process v. Utilize sewing tools and equipment in awning creation vi. Check awning finished appearance and defect 	i. Concentrate on sewing path and position ii. Apply both hands in a flexible manners when operating tiny and delicate parts iii. Apply correct coordination between eyes and left –right	Related Knowledge 8 Related Skill 16	Answer Group Discussion Related Skill	i. Awning shape cut pieces details listed and described ii. Interlining/ interfacing and fabric specifications described iii. Measurement data listed iv. Awning creation process demonstrated v. Utilization of

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	procedure, method and technique: • Utilization of special machineries • Conventional sewing process v. Sewing tools and equipment handling technique vi. Appearance and defects checking method such as: • Visual • Measure • Fit on model/ mannequin vii. Awning finished appearances: • Shapes in place • Neatly slashed/ trimmed and unsightly threads removed • Colours match with fabric • No defective stitching such as: • Puckering (ugly wrinkles) • Wobbling stitch (irregular stitching) • Stitch skipping (stitches)		hand motion iv. Adhere to quality standards requirements v. Always practice good housekeeping inclusive personal hygiene Safety: i. Wear PPE during operation 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 Environmental: i. Adhere to			sewing tools and equipment in awning creation demonstrated vi. Awning finished appearance explained and defects detected according to 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
	sometimes skip		environmental procedures when handling hazardous materials			
Assemble head gear cut pieces	 i. Joining area placement/ position ii. Face positioning and dimension measurement iii. Head gear assembly procedure, method and technique iv. Sewing tools and equipment handling technique v. Appearance and defects checking method vi. Assembled head gear finished appearances and defects: Face dimensions Size fitting Shapes in place Neatly slashed/trimmed and unsightly threads removed Colours match with fabric No defective stitching 	 i. Check joining area placement/ position ii. Check face positioning and dimension measurement iii. Execute head gear assembly process iv. Utilize sewing tools and equipment in head gear assembly v. Check assembled head gear appearance and defect 	i. Concentrate on sewing path and position ii. Apply both hands in a flexible manners when operating tiny and delicate parts 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	Related Knowledge 16 Related Skill 24	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Joining area placement/ position specified ii. Head gear face positioning and dimension measurement demonstrated iii. Head gear assembly process demonstrated iv. Utilization of sewing tools and equipment in head gear assembly demonstrated v. Assembled head gear finished appearance explained and defects detected according to quality standards requirements vi. Work area, personal

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
			inclusive personal hygiene Safety: i. Wear PPE during operation ii. Sharp tools such as cutting tools and hazardous chemical always kept in safe place/ designated area			hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times
			iii. Adhere to safety requirements in handling hot/sharp items Environmental: i. Adhere to environmental procedures when handling hazardous materials			

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
5. Attach head gear accessories and decorative materials	i. Head gear accessories and decorative materials details such as: • Types • lace • button • ribbons • embroideries • Size • Placement • Functions/suitability ii. Decorative materials placement/positions on Head gear bodice/awning iii. Accessories and decorative materials attachment procedure, method and technique iv. Sewing tools and equipment handling technique v. Decorated head gear finished appearances • Materials sewing neatness • Shape in place • Colour matching • Neatly slashed/trimmed and unsightly threads removed	 i. Check head gear accessories and decorative materials details ii. Determine accessories and decorative materials placement/positions on head gear bodice/awning iii. Execute accessories and decorative materials attachment process iv. Utilize Sewing tools and equipment in accessories and decorative materials attachment v. Check decorated Head gear finished appearance and defects vi. Record Head gear sewing completion status 	i. Concentrate on sewing path and position ii. Apply both hands in a flexible manners when operating tiny and delicate parts 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: iv. Wear PPE during operation v. Sharp tools such as cutting tools and hazardous	Related Knowledge 6 Related Skill 14	Related Knowledge Lecture Question and Answer Group Discussion Related Skill Demonstration Observation	i. Head gear accessories and decorative materials details listed and described ii. Accessories and decorative materials placement/ positions on Head gear bodice/awning specified iii. Accessories and decorative materials attachment process demonstrated iv. Utilization of sewing tools and equipment in accessories and decorative materials attachment of sewing tools and equipment in accessories and decorative materials attachment demonstrated v. Decorated head gear finished appearance explained and defects detected according to

Work Activities	Related Knowledge	Related Skills	Attitude/Safety/ Environmental	Training Hours	Delivery Mode	Assessment Criteria
	Accessories functions well vi. Head gear appearance and defects checking method vii. Classification of defect/defective issues on coat sewing quality such as:		chemical always kept in safe place/ designated area vi. Adhere to safety requirements in handling hot/sharp items Environmental: ii. Adhere to environmental procedures when handling hazardous materials			quality standards requirements vi. Head gear completion status documented and report generated according to company policy vii. Work area , personal hygiene, Health, Safety, Environment (HSE) requirements and good housekeeping practised at all times

Core	Abilities	Socia	al Skills
01.07 01.08 01.09 01.10 01.11 02.09 02.10 02.11 03.09 03.10 03.13 03.14 03.15 04.07 05.01 05.02 06.07	Utilize spreadsheets applications to locate and process information Utilize business graphic application to process information Apply a variety of mathematical techniques Apply thinking skills and creativity. Prepare flowcharts Prepare reports and instructions. Convey information and ideas to people. Manage and improve performance of individuals. Provide consultations and counselling. Develop and maintain team harmony and resolve conflicts. Facilitate and coordinate teams and ideas. Liaise to achieve identified outcomes. Identify and assess client/customer needs Negotiate acceptance and support for objectives and strategies. Implement project/work plans.	1. 2. 3. 4. 5. 6. 7. 8.	Communication skills Conceptual skills Interpersonal skills Learning skills Leadership skills Multitasking and prioritising Self-discipline Teamwork

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
3. Sample of production approved head gear	
4. Sample of fabrics (cotton, polyester, satin, etc)	1:25

5.	Sample pf head gear parts section (awning, bodice piece,etc)	As per required
6.	Work station/table with adjustable chairs	As per required
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)	1:5
9.	Sample of machine operating manual	1:25
10.	Sewing materials (interlining, threads, button, zipper, straps,velcro,etc)	As per required
11.	Decorative materials (ribbon, lace, embroderies, etc)	As per required
12.	Dummy model	1:25
13.	Sewing tools (tweezers, scissors, measuring tape/marking device)	1:1
14.	Equipment (hot press/iron/ironing table)	1:5
15.	Personal Protective Equipment (PPE) (gloves, safety mask, apron, etc)	1:1

- 1. Betsy Hosegood eds. (2006), Complete of Sewing, Darling Kindersley Limited London, ISBN 13, 978-1-4053-1295-0
- 2. Claire Shaeffer, Sewing for the Apparel Industry (2nd Edition), (2012), ISBN 978-0131884434
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SUMMARY OF TRAINING DURATION FOR SEWING OPERATION SUPERVISION - LEVEL 3

CU ID	COMPETENCY UNIT TITLE	WORK ACTIVITIES	RELATED KNOWLEDGE	RELATED SKILLS	HOURS	TOTAL
	UNII IIILE		(A)	(B)	(A+B)	(HOURS)
		Prepare coat sewing requirements	8	16	24	
		Prepare coat lining and interlining	5	11		
		Create bodice contour	5	11	16	
		Carry out pocket creation and attachment	12	28		
TA-020-		Attach coat outer shoulder	5	11	16	
3:2014-C01	COAT SEWING	Attach coat collar and label	12	28	40	220
		Attach coat outer sleeve	5	11	16	
		Attach lining and outer bodice	13	29	42	
		Attach coat accessories	3	7	10	
			68	152	(A+B) 24 16 16 40 16 40 16 40 17 18 18 10 20 40 40 40 40 40 40 40 40 4	
		Interpret in-line apparel sample sewing requirements	9	21	30	
		Prepare in-line apparel sample sewing requirements	5	11		
TA-020-	IN-LINE APPAREL	Sew in-line apparel sample	36	84		
3:2014-C02	SAMPLE SEWING	Check in-line apparel sample output	8	16		200
0.2014 002	O/ WIN EE OE WING	Acquire in-line apparel sample approval	4	6		
		rioquilo in into apparor campio approvai	62	138		
			16	24		
		Assure in-line apparel quality compliances			-	
TA-020-	IN-LINE GARMENT	Participate in company audit process Monitor sewing area housekeeping and machineries	18	42	60	
	QUALITY CONTROL	preventive maintenance	12	28	40	180
		Arrange garment repairs/reworks	12	28	40	
			58	122	180	<u> </u>
		Monitor production schedule implementation	5	11	16	
		Carry out sewing production inventory	5	11	16	
TA-020-	IN-LINE SEWING	Monitor workplace health, safety, and environmental pra-		14		
3:2014-C04	OPERATION	Participate in production meeting	6	14		100
0.2014 004	MONITORING	Monitor production timeline	8	20		
			30	70		
		Conduct operational briefing	2	6		
	SEWING	Monitor subordinate discipline	8	16		
TA-020-		Monitor subordinate discipline Monitor subordinate performance	6	14		
	OPERATION	Conduct performance appraisal	7	17		100
3:2014-C05	PERSONNEL					
	SUPERVISION	Arrange On Job Training (OJT)	7	17		
			30	70		
		TOTAL HOURS (Core Competencies)	248	552	800	800
		Check brassiere sewing requirements	2	6	8	
		Prepare brassiere sewing requirements	2	6	8	
		Create brassiere cup	12	24	36	
TA-020-	BRASSIERE	Attach chest band panels	8	16		100
3:2014-E01	SEWING	Attach shoulder straps	5	11		
		Attach brassiere decorative materials	2	6		1
			31	69		
		Check head gear sewing requirements	2	6		
		Prepare head gear sewing requirements	2	6		1
		Create awning				
	HEAD GEAR		8	16		100
TA-020-	0=:	Assemble head gear pieces	16	24	-	100
TA-020- 3:2014-E02	SEWING					
	SEWING	Attach head gear accessories and decorative materials	6	14	-	
	SEWING	Attach head gear accessories and decorative materials	6 34	66	20 100	