

SODDO POLY TECHNIC COLLAGE

OUTCOME BASED Curriculum

FOOTWEAR PRODUCTION Level II

Based on Occupational Standard (OS) (ADAPTED FOR INCLUSIVE TRAINING)

> June 2016 Hawassa

Preface

The reformed TVET-System is an outcome-based system. It utilizes the needs of the labor market and occupational requirements from the world of work as the benchmark and standard for TVET delivery. The requirements from the world of work are analyzed and documented – taking into account international benchmarking – as occupational standards (OS).

In the reformed TVET-System, curricula and curriculum development play an important role with regard to quality driven TVET-Delivery. Curricula help to facilitate the learning process in a way, that trainees acquire the set of occupational competences (skills, knowledge and attitude) required at the working place and defined in the occupational standards (OS). Responsibility for Curriculum Development will be given to the **SODDO POLY TECHNIC COLLAGE**.

This curriculum has been developed by a group of experts from **SODDO POLY TECHNIC COLLAGE.** Based on the occupational standard for footwear. It has the character of an **OUT COME BASED** and is an example on how to transform the occupational requirements as defined in the corresponding occupational standard into an adequate curriculum.

The curriculum development process has been actively supported and facilitated by the **SODDO POLY TECHNIC COLLAGE.AND PEOPLE IN NEED** technical support to the regions.

Footwear Production Operations level II	Version: 1 - 2016	Dage 1 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Page 1 of 57

TVET-Program Design

1.1. TVET-Program Title: Footwear Production Level II

1.2. TVET-Program Description

The Program is designed to develop the necessary knowledge, skills and attitude of the learners to the standard required by the occupation. The contents of this program are in line with the occupational standard. Learners who successfully completed the Program will be qualified to work as a footwear production operator with competencies elaborated in the respective OS. Graduates of the program will have the required qualification to work in the **Industry** sector in the field of **footwear production**. The prime objective of this training program is to equip the learners with the identified competences specified in the OS. Graduates are therefore expected to be able to Perform Leather Grading Operations, Estimate Upper Material Requirement for Footwear, Develop Basic Understanding of Leather Manufacturing Processes, and Perform Closing of Uppers, Perform Bottom Components Operations, Perform Minor Maintenance, Perform Basic Lasting Operations, Perform Footwear Finishing Operations, Apply Basic Ergonomics Principles, Participate in Workplace Communication, Work in Team Environment, Develop Business Practice, Apply Continuous Improvement Processes (Kaizen) in accordance with the performance criteria described in the OS.

1.3. TVET-Program Learning Outcomes

The expected outputs of this program are the acquisition and implementation of the following units of competence –

IND FWP2 01 0112	Perform Leather Grading Operations
IND FWP 2 02 0112	Estimate Upper Material Requirement for Footwear
IND FWP2 03 0112	Develop Basic Understanding of Leather Manufacturing Processes
IND FWP2 04 0112	Perform Closing of Uppers
IND FWP2 05 0112	Perform Bottom Components Operations
IND FWP2 06 0112	Perform Minor Maintenance
IND FWP2 07 0112	Perform Basic Lasting Operations
IND FWP2 08 0112	Perform Footwear Finishing Operations

Footwear Production Operations level II	Version: 1 - 2016	Page 2 of 57
Follwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 2 01 57

IND FWP2 09 0112	Apply Basic Ergonomics Principles
IND FWP2 10 0112	Participate in Workplace Communication
IND FWP2 11 0112	Work in Team Environment
IND FWP2 11 0112 IND FWP2 12 0112	Work in Team Environment Develop Business Practice

1.4. Duration of the TVET-Program

The Program will have duration of <u>**240** hours</u> excluding the on-the-job practice or cooperative training time but including civic education.

1.5. Qualification Level and Certification

Based on the descriptors elaborated on the Ethiopian National TVET Qualification Framework (NTQF) the qualification of this specific TVET Program is "Level II". The trainee is required to successfully complete all learning modules in this training program to be awarded the equivalent institutional certificate on this level.

1.6 Target Groups

Any citizen who meets the entry requirements under items 1.7 and capable of participating in the learning activities is entitled to take part in the Program.

1.7 Entry Requirements

The prospective participants of this program are required to possess the requirements or directive of the Ministry of Education. And also need to pass level I in leather goods and garment production.

1.8 Mode of Delivery

This TVET-Program is characterized as a formal Program on middle level technical skills. The mode of delivery includes co-operative training. The TVET-institution and identified companies have forged an agreement to co-operate with regard to implementation of this program. The time spent by the trainees in the industry will give them enough exposure to the actual world of work and enable them to get hands-on experience.

The co-operative approach will be supported with lecture-discussion, simulation and actual practice. These modalities will be utilized before the trainees are exposed to the industry environment.

Footwear Production Operations level II	Version: 1 - 2016	Page 3 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	

1.9 TVET-Program Structure

Grading Operations 0616 Leather Grading Operation of leather grading IND FWP 2 02 0112 Estimate Upper Material Requirement for Footwear IND FWP2 M02 Footwear Estimate Upper Material Requirement for Footwear IND FWP2 M02 Footwear Estimating upper material Requirement for Footwear Estimating upper material Requirement for Footwear Estimating upper material Requirement for Footwear Obtain and convey footwear specification 15 IND FWP2 03 0112 Develop Basic Understanding of Leather IND FWP3 M03 0616 Developing Basic Understanding of Leather Develop Basic Understanding of Leather IND FWP3 M03 0616 Developing Basic Understanding of Leather Develop Basic Understanding of Leather 18	Unit of Cor	npetence	Module Co	ode and Title			Learning Outcomes	Duration (in Hours)
IND FWP2 03 0112 Develop Basic IND FWP3 M03 Developing Basic • Describe leather processing 18 Understanding of Leather 0616 Understanding of Leather • Describe basic structure of the skin 18		Grading Operations Estimate Upper Material Requirement for	0616 IND FWP2 M02	Leather Grading Operation Estimating upper material Requirement for	• • • • • • • • • • • • • • • • •	of leat Deterr Deterr measu Perfor leathe Assess Deterr procur Obtair specifi Deterr paralle Deterr one pa Perfor	her grading mine defects of leather mine and perform arement of defective area m quality check on the r s grade of the leather mine financial implication on ement of leather ibe principles, and concepts material estimation n and convey footwear ication mine and perform elogram area of the pattern mine second wastage mine material estimation for air m synthetic material	30
processes • Explain basic crusting process Version: 1 - 2016	IND FWP2 03 0112	Understanding of Leather Manufacturing		Understanding of Leather manufacturing	•	Descril Descril Descril	be leather processing be basic structure of the skin be basic tanning process	18

	Processes			Explain basic finishing operation and storage	
IND FWP2 04 0112	Perform Closing of Uppers	IND FWP2 M04 0616	Performing closing uppers	 Set up sewing machine Perform sewing operation Perform closing of upper Check machine performance Check stitched components Dispatch completed work Perform folding operations Perform eye-letting operations 	35
IND FWP2 05 0112	Perform Bottom Components Operations	IND FWP2 M05 0616	Performing Bottom Components Operations	 Identify and prepare tools, materials and equipment Perform bottom component operations Assess final quality of the bottom components 	20
IND FWP2 06 0112	Perform Minor Maintenance	IND FWP2 M06 2216	Performing Minor Maintenance	 Prepare for basic routine maintenance Carry out basic routine maintenance Complete basic routine maintenance 	10
IND FWP2 07 0112	Perform Basic Lasting Operations	IND FWP2 M07 0616	Performing basic lasting operations	 Identify tools, materials and equipment Perform basic lasting procedure Identify and perform post manual lasting operations Determine quality check of the finished pair 	9

Footwear Production Operations level II	Version: 1 - 2016	Page 5 of 57
roduction operations level in	Copyright/Author: DILLA TVET collage	Fage 5 01 57

IND FWP2 08 0112	Perform Footwear Finishing Operations	IND FWP2 M08 0616	Performing Finishing Operations	 Prepare workstation Finish work Dispatch footwear 	22
IND FWP2 09 0112	Apply Basic Ergonomics Principles	IND FWP2 M09 0616	Applying Basic Ergonomics principles	 Describe basics of human factors engineering Design workplace Apply design 	15
IND FWP2 10 0112	Participate in Workplace Communication	IND FWP2 M10 0616	Participating in workplace communication	 Obtain and convey workplace information Participate in workplace meetings and discussions Complete relevant work related documents 	10
IND FWP2 11 0112	Work in Team Environment	IND FWP2 M11 0616	Working in team environment	 Describe team role and scope Identify own role and responsibility within team Work as a team member 	11
IND FWP2 12 0112	Develop Business Practice	IND FWP2 M12 0616	Developing Business Practice	 Identify business opportunity Identify personal business skills Plan for establishment of business operation Implement establishment plan Review implementation process 	25

Footwear Production Operations level II	Version: 1 - 2016	Page 6 of 57
routwear rroutclion operations level in	Copyright/Author: DILLA TVET collage	Fage 0 01 57

IND FWP2 13 1012	Apply Continuous Improvement Processes (Kaizen)	IND FWP2 M13 0616	Applying continuous Improvement Process	•	Satisfy quality system requirements in daily work Analyze opportunities for corrective and/or optimization action	20
				•	Recommend corrective and/or optimization actions	
				•	Participate in the implementation of recommended actions	
				•	Participate in the development of continuous improvement strategies	

Eastwar Braduction Operations level II	Version: 1 - 2016	Dago 7 of 57
Footwear Production Operations level II	Copyright/Author: DILLA TVET collage	Page 7 of 57

1.10 Institutional Assessment

Two types of evaluation will be used in determining the extent to which learning outcomes are achieved. The specific learning outcomes are stated in the modules. In assessing them, verifiable and observable indicators and standards shall be used.

The *formative assessment* is incorporated in the learning modules and form part of the learning process. Formative evaluation provides the trainee with feedback regarding success or failure in attaining learning outcomes. It identifies the specific learning errors that need to be corrected, and provides reinforcement for successful performance as well. For the trainer, formative evaluation provides information for making instruction and remedial work more effective. The LAP Tests serve as the formative assessment.

Summative Evaluation the other form of evaluation is given when all the modules in the program have been accomplished. It determines the extent to which competence have been achieved. And, the result of this assessment decision shall be expressed in the term 'competent or not yet competent'.

Techniques or tools for obtaining information about trainees' achievement include oral or written test, demonstration and on-site observation.

1.11 TVET Trainers Profile

For this particular TVET Program and especially for the main modules, trainers / facilitators are expected to have B level in related fields of studies and satisfactory practical experiences, or equivalent qualifications and relevant experience.

Other requirements –

- Must have completed Trainer's Methodology Course II (TM II)
- Must have attended relevant training and seminars
- Must have at least 1 year industry experience

Footwear Production Operations level II	Version: 1 - 2016	Page 8 of 57
	Copyright/Author: DILLA TVET collage	

1.12 Learning Modules

LEARNING MODULE 01

TVET-PROGRAMME TITLE: Footwear Production Level II

MODULE TITLE: Performing Leather Grading Operation

MODULE CODE: IND FWP2 M01 0616

NOMINAL DURATION:

MODULE DESCRIPTION:

This module covers knowledge and skills related to the estimation of the grade of the leather based upon the defects, purchase cost variance.

LEARNING OUTCOMES:

At the end of the module the learner will be able to:

LO1 Describe principles, and concepts of leather grading

LO2 Determine defects of leather

LO3 Determine and perform measurement of defective area

LO4 Perform quality check on the leather

LO5 Assess grade of the leather

LO6 Determine financial implication on procurement of leather

MODULE CONTENTS:

LO1. Describe principles, and concepts of leather grading

- 1.1 principle and concepts of leather grading
- 1.2 methods of leather grading

1.3Types of defects

- 1.3.1 scar marks
- 1.3.2. wrinkles
- 1.3.3 brand marks
- 1.3.4 flay cuts
- 1.3.5 scratches
- 1.3.5 tick marks
- 1.3.6 warble holes
- 1.3.7 growth marks
- 1.4 leather grading
 - 1.4.1 full grain leathers
 - 1.4.2 corrected grain
 - 1.4.3 nap based leathers

LO2. Determine defects of leather

- 2.1 Types of defects on the leather
- 2.2 Defects on the leather
- 2.3 Effect of defects on the footwear

LO3. Determine and perform measurement of defective area

3.1 method of determination of the area of grid

Footwear Production Operations level II	Version: 1 - 2016	Page 9 of 57
	Copyright/Author: DILLA TVET collage	

3.2 method of measuring
3.3 method of measuring on leather
3.4 Defect area measurement on leather
LO4 Perform quality check on the leather
4.1 physical tests (non laboratory) on the leather
4.2 Method of physical testing
4.3 Method of sample selection
 4.4 Characteristics of the leather 4.4.1 grading of a leather 4.4.2 measure of the defects 4.4.3 defects on leather 4.4.4 check leather L05 Assess grade of the leather
5.1 grade of leather
5.2 cutting value and suitability for the footwear
5.3 Storage and bundling of the leather
LO6. Determine financial implication on procurement of leather
6.1 The reassessment on the value of received consign
6.2 The purchase cost variance from the consignment.
 6.3 Accessories and equipment. 6.3.1 calculator(simple) 6.3.2 grid (leather measuring) 6.3.3 white pencil(glass marking) 6.3.4 markers/sketch pen 6.3.5 hand cutting knife 6.3.6 white cloth 6.3.7 thickness gauge 6.3.8 cello tape 6.3.9 brown paper

	Reasonable Adjustment For Trainees With Disability(TWD)			
	hard of hearing	Visual impairment	Physical disability	
Lecture-discussion	 Slide presentation during lecture-discussion Sign language interpreter Give Softcopy/printed lecture material before class 	 Give Braille printed lecture material before class Bold print for low vision 	 Give Softcopy/printed lecture material before class 	

Footwear Production Operations level II	Version: 1 - 2016	Page 10 of 57
	Copyright/Author: DILLA TVET collage	Fage 10 01 57

	 Provide the lecture in titled Video/ Film 	
Demonstration	 Provide recorded video of demonstration Sign language interpreter 	 Provide audio recorded demonstration instruction Making special assistant during work/assignment as per necessary
Group work/individual assignment	Sign language interpreter	 Assign Guide/ assistant/ Provide audio recorded work/assignme nt instruction Making special assistant during work/assignment as per requirement Group the trainee with Person without disability

ASSESSMENT MET			
ASSESSMENT MET	nob3.		
Written tests	 Sign language interpreter Question in written form 		
Oral question		 Braille printed test Alter to Oral question Additional time for assessment 	Additional time for assessment If written exam is not comfortable alter to Oral exam
Demonstration	 Sign language interpreter 	 Guide/assistant Making special assistant during work/assignment as per requirement Additional time for assessment if necessary 	Making special assistant during work/assignment as per requirement Additional time for assessment if necessary
ASSESSMENT CRIT	ERIA:		
L01. Describe prir	nciples, and concepts of le	eather grading	
1.1	Principle and concepts of I	leather grading are desc	ribed.
1.2	Methods of leather grading	g are explained.	
1.3	Types of <i>defects</i> are iden	ntified.	
1.4 LO2. Determine de	Objective of the <i>leather</i> g efects of leather	rading are described.	

- 2.4 Types of defects on the leather are described.
- 2.5 Defects on the leather are identified.

Footwear Production Operations level II	Version: 1 - 2016	Page 11 of 57	
	Copyright/Author: DILLA TVET collage	Fage 1101 37	

2.6 LO3. Determine a	Effects of defects on the footwear are described. nd perform measurement of defective area
3.5	Method of determination of the area by grid method are described and performed on paper.
3.6	Method of measuring by fest method are described and performed.
3.7	Method of measuring of leather are described.
3.8	The defect area measurement on leather through grid system is performed.
LO4 Perform quality	ty check on the leather
4.5	Various physical tests (non laboratory) on the leather are described and performed.
4.6	Method of physical testing are performed.
4.7	Method of sample selection are described and demonstrated.
4.8 LO5 Assess grade of	<i>Characteristics</i> of the leather are checked. of the leather
5.4	The average grade of the leather lot is determined.
5.5	The leather is evaluated for the cutting value and suitability for the footwear manufacturing.
5.6 LO6. Determine fin	Storage and bundling of the leather is performed. ancial implication on procurement of leather
6.4	The reassessment on the value of received consignment is performed.
6.5	Determine the purchase cost variance from the consignment.
6.6	Accessories and equipment to be used are checked.

Footwear Production Operations level II	Version: 1 - 2016	Page 12 of 57
	Copyright/Author: DILLA TVET collage	Fage 12 01 57

ltom		Departmention/	Reasonable		Recommend
Item No.	Category/Item	Description/ Specifications	Adjustment For TWD	Quantity	ed Ratio (Item: Trainee)
Α.	Learning Materials	I			
1.	TTLM	Learning guide	In electronic form(soft copy, etc)	25	1:1
2.	Travel goods/upholstery/domestic items making	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1
3.	Leather Goods Maker (Travel)	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1
4.	Leather Goods and Sports Goods Maker	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1
5.	Leather goods designing and manufacturing	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1
6	Pattern and template maker	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	5	1:5
7.	Reference Books	New	Braille print	5	1:5
8.	Journals/Publication/Magazines	Recent	In electronic form(soft copy, etc)	3	1:8
В.	Learning Facilities & Infrastructure				

Footwear Production Operations level II	Version: 1 - 2016	Page 13 of 57
	Copyright/Author: DILLA TVET collage	Fage 15 01 57

1.	Class room	10X20 CM	1	1:25
2.	Workshop	15 X30 CM	1	1:25
3.	Visual training media (LCD, Laptops, OHP, transparencies, black board, white board, flip chart)		1	1:25
C.	Consumable Materials			
1	Paper	4GOLD A 4	1 Pack	1:5
2	Pencil	HP	25	1:1
D.	Tools and Equipment			
1	Measuring tape		25	1:1
2	Ruler		25	1:1
3	Thickness gauge		25	1:1
4	Try-square		25	1:1
5	Protractor		25	1:1

Footwear Production Operations level II	Version: 1 - 2016	Dage 14 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Page 14 of 57

LEARNING MODULE 02

TVET-PROGRAMME TITLE: Footwear Production Level II

MODULE TITLE: Estimating Upper Material Requirement for Footwear

MODULE CODE: IND FWP2 M02 2216

NOMINAL DURATION:

MODULE DESCRIPTION:

This module covers knowledge and skills related to the estimation of the upper material consumption for footwear.

LEARNING OUTCOMES:

At the end of the module the learner will be able to:

LO1 Describe principles, and concepts upper material estimation

LO2 Obtain and convey footwear specification

LO3 Determine and perform parallelogram area of the pattern

LO4 Determine second wastage

LO5 Determine material estimation for one pair

LO6 Perform synthetic material estimation

MODULE CONTENTS:

LO1. Describe principles, and concepts upper material estimation

1.1 The principle and concepts of material estimations

1.2 methods of material estimation

1.3 Purpose of material estimation.

LO2. Obtain and convey footwear specification

2.1 Obtained and checked for the completeness.

2.2 Determine No. of components per pair

2.3 Type of footwear.

Upper and lining patterns of various design such as:

- derby
- oxford
- slip on
- moccasins
- boots

2.4 Determined Material type.

LO3. Determine and perform parallelogram area of the pattern

3.1 Fundamental of parallelogram .

3.2Zero degree method of construction of the parallelogram

3.3 One eighty degree method of construction of parallelogram

3.4 Selection of method of construction of the parallelogram,

Footwear Production Operations level II	Version: 1 - 2016	Page 15 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 15 01 57

	second wastage
4.1 Size	e of <i>l</i> eather.
	• COW
	 goat/kid sheep
	 nu buck
	• suede
4.2 Rela	ationship between pattern area and leather.
	e of different methods applicable to different types of leather and tern.
4.4 Sec	cond waste.
LO5 Determine n	naterial estimation for one pair
5.1 Gra	de of the leather.
5.2Estir	mation of the material consumption.
5.3Acce	essories and equipment.
	 calculators(simple)
	• scale
	 pencils erasers
	 graph sheets (a1 size or equivalent size)
	 brown paper
LO6 Perform syr	othetic material estimation
6.1 Syr	othetic and leather material.
6.2 Trac	cing method.
6.3 Con	sumption of synthetic.
6.4 Cha	racteristics of leather.
6.4.	
6.4.2	2 Able to make parallelogram with maximum permissible Error of +/- 2 mm between opposite sides.
6.4.3	••
6.4.5	
0.1.0	graphical method (RSM).

LEARNING STRATEGIES:	
	Reasonable Adjustment For Trainees With Disabilities(TWD)

Footwear Production Operations level II	Version: 1 - 2016	Page 16 of 57
Follwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	

	hard of hearing	Visual Impairment	Physical disability
Lecture/Discussion	 Sign language interpreter use slide presentation 	Recorded lecture/discussion voice	Provide softcopy/lecture material before class
Demonstration	Sign language interpreter	Guide/assistant	
Group work/Individual assignment	 Sign language interpreter 		
ASSESSMENT METHODS:		1	
Oral questioning	Sign language interpreterQuestion in written form		
Written test		Braille written test	
Demonstration	Sign language Interpreter	Guide/assistant/pee r	

Footwear Production Operations level II	Version: 1 - 2016	Page 17 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	

ASSESSMENT CRITERIA:

LO1. Describe principles, and concepts upper material estimation

1.4 The principle and concepts of material estimations are described.

1.5 The different methods of material estimation are described.

1.6 The purpose of material estimation is described.

LO2. Obtain and convey footwear specification

2.5 Patterns are obtained and checked for the completeness.

2.6 No. of components per pair is determined.

2.7 Type of *footwear* is determined.

2.8 Material type is determined.

LO3. Determine and perform parallelogram area of the pattern

3.6 Fundamental of parallelogram is described.

3.7 Zero degree method of construction of the parallelogram is performed.

3.8 One eighty degree method of construction of parallelogram is performed.

3.9 Selection of method of construction of the parallelogram is described.

3.10 Determination of the parallelogram area is described and performed.

LO4. Determine second wastage

6.4 Size of *leather* is determined.

6.5 Relationship between pattern area and leather size is described.

- 6.6 Use of different methods applicable to different types of leather and pattern condition is described.
- 6.7 Second waste computation is performed.

L05 Determine material estimation for one pair

5.4 The average grade of the leather is determined.

5.5 Estimation of the material consumption is performed based upon the grade of the material is determined.

5.6 Accessories and equipment are determined.

LO6 Perform synthetic material estimation

6.5 Difference between synthetic and leather material is described.

6.6 Tracing method is performed.

6.7 Consumption of synthetic material is performed.

6.8 *Characteristics* of leather materials are determined.

Footwear Production Operations level II	Version: 1 - 2016	Dogo 19 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Page 18 of 57

ltem No.	Category/Item	Description/ Specifications	Reasonable Adjustment For(TWD)	Quantity	Recomme nded Rati (Item: Trainee)
Α.	Learning Materials				
1.	TTLM	Learning guide	In electronic form(soft copy, audio, video etc) and Braille form	25	1:1
2.	Travel goods/upholstery/domestic items making	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1
3.	Leather Goods Maker (Travel)	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1
4	Pattern and template maker	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	5	1:5
.5	Reference Books		Braille print	5	1:5
6.	Journals/Publication/Maga zines	Recent	In electronic form(soft copy, etc)	3	1:8
В.	Learning Facilities & Infrastructure				
1.	Class room	10 X20 M		1	1:25
2.	Workshop	15 X 30 M		1	1:25
3.	Library	10 X 20 M		1	1:25
4	Visual training media (LCD, Laptops, OHP, transparencies, black board, white board, flip chart)			1	1:25

Footwear Production Operations level II	Version: 1 - 2016	Page 19 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 19 01 57

0	O			
C.	Consumable Materials			
1	Paper	Gold A4	1 Pack	1:1
2	Pencil	HB	25	1:1
3	Drawing bored	Hard carton	1	1:25
4	Eraser		25	1:1
D.	Tools and Equipment			
1	Drawing table	Metal	1	1:25
2	Pencil sharpener		25	1:1
3	calculators(simple)		1	1:25
4	Scale		1	1:25
5	pencils		1	1:25
6	erasers		1	1:25
7	graph sheets (a1 size or equivalent size)		1	1:25
8	brown paper		1	1:25

Footwear Production Operations level II	Version: 1 - 2016	Page 20 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 20 01 57

MODULE TITLE: Developing Processes MODULE CODE: IND FWP NOMINAL DURATION: MODULE DESCRIPTION This module covers the k basic leather technology. crust and finishing process LEARNING OUTCOME At the end of the module the LO1 Describe leather pro- LO2 Describe basic struction LO3 Describe basic crustin LO4 Explain basic crustin LO5 Explain basic finishing MODULE CONTENTS: LO1 Describe leather pro- 1.1 Typ	2 M03 2216 DN: mowledge, attitudes and skills necessary to the understanding of This unit also includes basic understanding of types of tanning, ses. ES: learner will be able to: cessing ucture of the skin ng process g process ng operation and storage
Processe MODULE CODE: IND FWP NOMINAL DURATION: MODULE DESCRIPTIC This module covers the k basic leather technology, crust and finishing proces LEARNING OUTCOME At the end of the module the LO1 Describe leather pro LO2 Describe basic stru LO3 Describe basic tannin LO4 Explain basic crustin LO5 Explain basic finishin MODULE CONTENTS: LO1 Describe leather pr 1.1 Typ	s 2 M03 2216 DN: mowledge, attitudes and skills necessary to the understanding of This unit also includes basic understanding of types of tanning, ses. S: learner will be able to: cessing ucture of the skin ng process g process ng operation and storage ocessing bes and characteristics of leather.
NOMINAL DURATION: MODULE DESCRIPTIO This module covers the k basic leather technology. crust and finishing proces LEARNING OUTCOME At the end of the module the LO1 Describe leather pro- LO2 Describe basic stru LO3 Describe basic tannin LO4 Explain basic crustin LO5 Explain basic finishin MODULE CONTENTS: LO1 Describe leather pr 1.1 Typ	DN: anowledge, attitudes and skills necessary to the understanding of This unit also includes basic understanding of types of tanning ses. SS: learner will be able to: cessing ucture of the skin ng process g process ng operation and storage ocessing bes and characteristics of leather.
MODULE DESCRIPTION This module covers the k basic leather technology. crust and finishing process LEARNING OUTCOME At the end of the module the LO1 Describe leather pro- LO2 Describe basic strut LO3 Describe basic tannin LO4 Explain basic crustin LO5 Explain basic finishin MODULE CONTENTS: LO1 Describe leather pr 1.1 Typ	<pre>inowledge, attitudes and skills necessary to the understanding of This unit also includes basic understanding of types of tanning ses. S: learner will be able to: cessing ucture of the skin ng process g process ng operation and storage ocessing bes and characteristics of leather.</pre>
This module covers the k basic leather technology. crust and finishing process LEARNING OUTCOME At the end of the module the LO1 Describe leather pro- LO2 Describe basic stru LO3 Describe basic tannin LO4 Explain basic crustin LO5 Explain basic finishin MODULE CONTENTS: LO1 Describe leather pr 1.1 Typ	<pre>inowledge, attitudes and skills necessary to the understanding of This unit also includes basic understanding of types of tanning ses. S: learner will be able to: cessing ucture of the skin ng process g process ng operation and storage ocessing bes and characteristics of leather.</pre>
At the end of the module the LO1 Describe leather prod LO2 Describe basic stru LO3 Describe basic tannin LO4 Explain basic crustin LO5 Explain basic finishin MODULE CONTENTS: LO1 Describe leather pr 1.1 Typ	learner will be able to: cessing acture of the skin ng process g process ng operation and storage ocessing bes and characteristics of leather.
LO1 Describe leather prod LO2 Describe basic stru LO3 Describe basic tannin LO4 Explain basic crustin LO5 Explain basic finishin MODULE CONTENTS: LO1 Describe leather pr 1.1 Typ	cessing acture of the skin ng process g process ng operation and storage ocessing bes and characteristics of leather.
LO2 Describe basic stru LO3 Describe basic tannin LO4 Explain basic crustin LO5 Explain basic finishin MODULE CONTENTS: LO1 Describe leather pr 1.1 Typ	acture of the skin ng process g process ng operation and storage ocessing bes and characteristics of leather.
LO4 Explain basic crustin LO5 Explain basic finishin MODULE CONTENTS: LO1 Describe leather pr 1.1 Typ	g process ng operation and storage ocessing bes and characteristics of leather.
LO5 Explain basic finishin MODULE CONTENTS: LO1 Describe leather pr 1.1 Typ	ng operation and storage ocessing bes and characteristics of leather.
MODULE CONTENTS: LO1 Describe leather pr 1.1 Typ	ocessing bes and characteristics of leather.
LO1 Describe leather pr 1.1 Typ	ocessing bes and characteristics of leather.
1.1 Тур	bes and characteristics of leather.
1.2 Lea	1.1 .1 Cow
1.2 Lea	
1.2 Lea	1.1.2 Sheep
1.2 Lea	11.3 Goat
1.2 Lea	1.1.3 Kid
	ather classification.
1.3 Pro	cessing requirements for leather.
	ther processing procedures and techniques.
LO2 Describe basic st	ructure of the skin
	ructure of the skin.
	erence between hide, side and skin.
2.3 Effe	ect of tanning process on the skin.
	thods of preservation processes.
LO3 Describe basic tann 3.1 Bas	ning process

Footwear Production Operations level II	Version: 1 - 2016	Page 21 of 57
	Copyright/Author: DILLA TVET collage	Fage 21 01 57

3.2	Purpose of tanning.
3.3	 Different tanning types and stage process. Vegetable tanning Chrome tanning Alum tanning
LO4 Explain basic c	rusting process
4.1	Different ways or methods of crust stage of leather are explained.
4.2	Procedure for preparing leather for crusting operation is explained • dyeing • fat liquoring • fixing
4.3	Basic crusting operations at the crust stage treatment of leather are described. • Dying • Toggling • Splitting • Shaving • Buffing
LO5 Explain basic f	inishing operation and storage
5.1	corrected grain and full grain leather
5.2	Different methods to finish leather.
5.3	Different types of finished leather Nap based leather Corrected/printed grain leather Full grain leathers
5.4	Quality requirements for finish leather.
5.5	Method of storing leather.
5.6	Demonstration of the leather bundling.
5.7	 Measuring method of finished leather. Measurement of leather through area. Method of measurement of the finished leather

LEARNING STRATEGIE	S:		
	Reasonable Adjustm	nent For Trainees With	Disabilities(TWD)
Lecture-discussion	hard of hearing	Visual Impairment	Physical disability
	Sign language interpreter	BrailleDigital recorder	
Demonstration	 Sign language interpreter 	➢ Guide/assistant	Assisting during

Footwear Production Operations level II	Version: 1 - 2016	Page 22 of 57
rootwear Production Operations level in	Copyright/Author: DILLA TVET collage	Fage 22 01 57

				demonstration
Group work / india assignment	vidual	 Sign language interpreter 	 Guide/assistant 	
Assessment Me	thods:		1	
Oral questioning		 Sign language interpreter Question in written form 		
Written test			 Braille printed test 	
Demonstration		 Sign language interpreter 	 Guide/assistant 	Assisting during demonstration
ASSESSMEN	T CRITERIA		1	L
LO1 Describe le	eather proces	sing		
1.1	Types ar	d characteristics of leath	er are identified	
1.	1.2 Leather classification is described			
1.3 Processing requirements for leather are explained				
1.4 Leather processing procedures and techniques are identified. LO2 Describe basic structure of the skin				
2.	2.1 Structure of the skin is explained			
2.	2.2 Difference between hide, side and skin is explained			
2.3 Effect of tanning process on the skin is described				
2.4 Methods of preservation processes are explained Material				
type is determined.				
LO3 Describe ba	asic tanning p	process		
3.1 Basic tanning requirements are discussed				
3.2 Purpose of tanning is explained				
3.3 Different <i>tanning types</i> and stage process are explained LO4 Explain basic crusting process				
4.1 Different ways or methods of crust stage of leather are explained.				
4.2 Procedure for <i>preparing leather</i> for crusting operation is explained				
4.3 Basic crusting operations at the crust stage treatment of leather are described.				
LO5 Explain bas	sic finishing	operation and storage		
	5.1 Explain	basic difference betwe	en corrected grain a	nd full grain leather
	5.2 Different methods to finish leather are explained.			
	5.3 Different	types of <i>finished lea</i>	t her is described	

Footwear Production Operations level II	Version: 1 - 2016	Page 23 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	

- 5.4 Quality requirements for finish leather are described.
- 5.5 Method of storing leather is explained and demonstrated
- 5.6 Demonstration of the leather bundling is carried out.
- 5.7 *Measuring method* of finished leather is described.

Moc	Module Code and Title : - IND FWP3 M03 0616– Developing Basic Understanding of Leather				
	manufacturing processes				
Item No.	Category/Item	Description/ Specifications	Reasonable Adjustment For TWD	Quantity	Recommend ed Ratio (Item: Trainee)
Α.	Learning Materials				1
1.	TTLM	Learning guide	In electronic form(Soft copy, etc)	25	1:1
-	Travel goods/upholstery/domesti c items making	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	25	1:1
3.	Leather Goods Maker (Travel)	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	25	1:1
4.	Leather goods designing and manufacturing	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	25	1:1
5.	Reference Books		Braille print	5	1:5
6	Journals/Publication/Maga zines		In electronic form(Soft copy, etc)	3	1:8
В.	Learning Facilities & Infrastructure				
1.	Class room			1	1:25

Footwear Production Operations level II	Version: 1 - 2016	Dogo 24 of 57
Poolwear Production Operations level in	Copyright/Author: DILLA TVET collage	Page 24 of 57

2.	Workshop	1	1:25
3.	Visual training media (LCD, Laptops, OHP, transparencies, black board, white board, flip chart)	1	1:25
C.	Consumable Materials		
1	Developed pattern	1	1;25
2	Finished product	1	1;25

Footwear Production Operations level II	Version: 1 - 2016	Page 25 of 57
	Copyright/Author: DILLA TVET collage	Fage 25 01 57

LEARNING MODULE 04

TVET-PROGRAMME TITLE: Footwear Production Level II

MODULE TITLE: Performing Closing of Uppers

MODULE CODE: IND FWP2 M04 2216

NOMINAL DURATION:

MODULE DESCRIPTION:

This module covers the skills, attitudes and knowledge required to prepare and assemble upper, operate and monitor flat bed, post bed, zigzag, cylinder bed, and strobble stitching machine using defined procedures / methods.

LEARNING OUTCOMES:

At the end of the module the learner will be able to:

LO1 Set up sewing machine

LO2 Perform sewing operation

LO3 Perform closing of upper

LO4 Check machine performance

LO5 Check stitched components

LO6 Dispatch completed work

LO7 Perform folding operations

LO8 Perform eye-letting operations

MODULE CONTENTS:

LO1 Set up sewing machine

- 1.1 Sewing machine is *set-up* and adjustment
 - 1.1 1 threading the machine
 - 1.1.2 winding and inserting bobbin i
 - 1.1.3 operating the sewing machine
 - 1.1.4 adjustment of thread density
 - 1.1.5 inserting the appropriate type of needle
 - 1.1.6 cleaning the work place
 - 1.1.7 adjustment of folding machine
- 1.2 Stitching tools and attachments
 - 1.2.1 scissors and trimmer
 - 1.2.2 thread burning tool
 - 1.2.3 screw driver
 - 1.2.4 folding hammer
 - 1.2.5 hand punches
 - 1.2.6 dies for eye-letting machine
 - 1.2.7 attachment for gimping and punching machine
 - 1.2.8 guides
 - 1.2.9 pressure foots
 - 1.2.10 piping attachments
 - 1.2.11 binding attachments
- 1.3 Tension set according to specifications
 - 1.4 Clean and maintain Sewing machine .
 - 1.4.1 post bed single needle sewing machine
 - 1.4.2 post bed double needle sewing machine
 - 1.4.3 storable machine

Footwear Production Operations level II	Version: 1 - 2016	Page 26 of 57
Followear Froduction Operations level in	Copyright/Author: DILLA TVET collage	

	1.4.4 seam	rubbing and taping
		der bed machine
	1.4.6 foldin	
		etting machine ing and punching machine
	C .	
		ls are maintained.
LO2 Perform sewing operation	on	
2.1 Materia	al position leat	
		synthetic materials
		fabrics
2.2 Materia		reinforcements
		nents are carried out according to OHS
practic		
-	2.3.1	0 1
	2.3.2	1 01
	2.3.3 2.3.4	personal protective equipment safe materials handling
		ergonomic arrangement of workplace
		safe storage of equipment
		reporting accidents and incidents
	2.3.8	environmental practices
LO3 Perform closing of uppe	er	
3.1 5	Sequence of o	operation for.
3.2 N	Machine and t	tools
3.3	The various a	allowances on the cut components
	The sewing is operation.	s performed as per the sequence of
LO4 Check machine perform	nance	
4.1 T	The performa	nce of the machine faulty operations
4.2 Minc	4.2.3 th	n the sewing machine needle breakages nread breakages ension adjustments
		s undertaken in workplace procedures
LO5 Check stitched compon		-
-		st job specifications and workplace standards.
	· ·	per operating instructions
	• • •	or irregularities
	Stitched comp 5.4.1 le 5.4.2 s 5.4 3fab	<i>onents</i> are checked. eather ynthetic material

Footwear Production Operations level II	Version: 1 - 2016	Page 27 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 27 01 57

LO6 Dispatch completed	work
6.1	Completed component parts, panels or pieces
6.2	Sewing faults.
6.3	Record and complete workplace procedures and format as applicable.
LO7 Perform folding oper	rations
7.1	Folding by hand
7.2	Folding machine adjustments
7.3	Folding machine operate.
7.4	Folding machine maintenance.
LO8 Perform eye-letting of	operations
8.1 8.2 8.3	Punching by hand Eye-letting by hand Eye-letting machine
8.4	Eye-letting machine is operate
8.5	Quality of eye-letting.

	Reasonable adjustment for trainees with disability (TWD)					
	hard of hearing	Visual impaired	Physical disability			
Lecture-discussion	 Slide presentation during lecture Sign language interpreter Give Softcopy/printed lecture material before class 	 Give Braille printed lecture material before class Bold print for low vision 	 Give Softcopy/printed lecture material before class 			
Demonstration	 Provide recorded video of demonstration Sign language interpreter 	 Provide audio recorded demonstration instruction 	Making special assistant during work/assignment as per necessary			
Group work / Individual assignment	Sign language interpreter	 Guide/assistant/ Provide audio recorded work/assignment instruction 	Making special assistant during work/assignment as per requirement			

Footwear Production Operations level II	Version: 1 - 2016	Page 28 of 57	
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 20 01 57	

	HODS:					
 Oral questioni 	ng 🕨	Sign language interpreter Question in written form				
 Written test 			AA	Braille pri Alter to O question		
Demonstration		Sign language interpreter Practice	A A	Guide/as Making s assistant work/assi per requir	oecial during gnment as	Making special assistant during work/assignmer per requirement
ASSESSMENT CRIT	ERIA:		•			
LO1 Set up sewing	nachine	9				
1.1		g machine is set-up and ements.	adjus	ted for ope	ration accor	ding to task
1.2	Stitching work.	g <i>tools</i> and <i>attachment</i> s	s are	selected ar	nd prepared	according to spec
1.3	Tensior	n is set according to spec	ificati	ions		
1.4	Sewing	machine is routinely cle	anec	and maint	ained.	
1.5		s are maintained.				
LO2 Perform sewing						
2.1		<i>I</i> is positioned accurately			stitch requi	rement
2.2		I is sewn according to sp				
2.3 LO3 Perform closing	-	of the components are c	arried	d out accor	ding to OHS	practices.
3.1		nce of operation for the	266	ombly is d	otorminod	
	•	·		•		a ara identified
3.2		e and tools required fo		•		
3.3		rious allowances on the		•		
3.4 LO4 Check machine		wing is performed as p nance	ຍເຫ	e sequenc		non or the upper
4.1	The per	formance of the machine ons according to manufac				igns of faulty
4.2	•	problems in the sewing r				rectified
4.3	-	riate action is undertaker		-		
4.4		chine is oiled and cleane				
LO5 Check stitched				5		
5.1	Uppers	are checked against job	spec	ifications a	nd workplac	e standards.
5.2	Handlin	g of upper is carried out	as pe	er the opera	ting instruct	ions.
5.2		3 - 11			U	

	5.3	Faults or irregularities are addressed or resolved
	5.4	Stitched <i>components</i> are checked.
LO6 Dispat	ch com	pleted work
	6.1	Completed component parts, panels or pieces are bundled, stacked, stored or dispatched in accordance with workplace procedures.
	6.2	Sewing faults are recorded in accordance with workplace standard procedures.
	6.3	Records are completed in accordance with workplace procedures and format as applicable.
LO7 Perfor	m foldir	ng operations
	7.1	Folding by hand is performed in accordance with standards procedures
	7.2	Folding machine adjustments is performed in accordance with job requirements.
	7.3	Folding machine is operated in accordance with manufacturer's instructions and OHS measures.
	7.4	Folding machine maintenance is performed in accordance with enterprise standard procedures.
LO8 Perfor	m eye-le	etting operations
	8.1	Punching by hand is performed in accordance with job specifications and requirements following OHS measures
	8.2	Eye-letting by hand is performed in accordance with job specifications and requirements following OHS measures
	8.3	Eye-letting machine is set up in accordance with job specifications and requirements following OHS measures
	8.4	Eye-letting by machine is operated in accordance with manufacturer's instructions and OHS measures.
	8.5	Quality of eye-letting is checked and appropriate action undertaken to correct faults.

Footwear Production Operations level II	Version: 1 - 2016	Page 30 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 50 01 57

ltem No.	Category/Item	Description/ Specifications	Description/ Specifications for TWD	Quantity	Recommen ed Ratio (Item: Trainee)
Α.	Learning Materials	1		I	
1.	TTLM	Learning guide	In electronic form(Soft copy, etc)	25	1:1
2.	Travel goods/upholstery/domestic items making	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	25	1:1
3.	Leather Goods Maker (Travel) National Instructional Medial Institute, Chennai	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	25	1:1
4.	Leather goods designing and manufacturing National Instructional Medial Institute, Chennai	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	25	1:1
5.	Pattern and template maker National Instructional Medial Institute, Chennai	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	5	1:5
6.	Reference Books	New	Braille print	5	1:5
7.	Journals/Publication/Magazin es	Recent	In electronic form(Soft copy, etc)	3	1:8
В.	Learning Facilities & Infrastructure				
1.	Class room	10 X20 m		1	1:25
2.	Workshop	15 X 30 M		1	1:25
3.	Visual training media (LCD, Laptops, OHP, transparencies, black board, white board, flip chart)			1	1:25

Eastwar Production Operations level II	Version: 1 - 2016	Page 31 of 57
Footwear Production Operations level II	Copyright/Author: DILLA TVET collage	

C.	Consumable Materials			
1	Leather	Cow Napa, sheep Napa,	25	1:1
2	Lining	Polestar,	25	1:1
3	Reinforcement material		25	1:1
4	Wading material		25	1:1
5	Cutter blade	Metal /standard	25	1:1
6	Accessories		25	1:1
D.	Tools and Equipment			
1	Clicking machine		25	1:1
2	Cutting table		25	1:1
3	Cutting mat		25	1:1
4	Cutter	Metal /standard	25	1:1
5	Scissors	Metal /standard	25	1:1

Footwear Production Operations level II	Version: 1 - 2016	Page 32 of 57
	Copyright/Author: DILLA TVET collage	Fage 52 01 57

LEARNING MODULE 05

TVET-PROGRAMME TITLE: Footwear Production Level II

MODULE TITLE: Performing Bottom Component Operation

MODULE CODE: IND FWP2 M05 2216

NOMINAL DURATION:

MODULE DESCRIPTION:

This module covers the knowledge, attitudes and skills required to perform bottom component operations.

LEARNING OUTCOMES:

At the end of the module the learner will be able to:

LO1 Identify and prepare tools, materials and equipment

LO2 Perform bottom component operations

LO3 Assess final quality of the bottom components

MODULE CONTENTS:

LO1 Identify and prepare tools, materials and equipment

- 1.1 Identify and select Materials
 - 1.1 1 steel shank
 - 1.1.2 toe puff sheets
 - 1.1.3 stiffener sheets

 - 1.1.4 sole:- leather1.1.5 heels:- wedge heel
 - 1.1.6 types and characteristics
 - 1.1.7 Generic and trade names
 - 1.1.8 Uses and care

1.2 identify and made *Machines* and *tools*

- 1.2.1 cutting knives
- 1.2.2 cutting machines- travel head
- 1.2.3 insole molding
- 1.2.4 insole beveling
- 1.2.5 shank skiving
- 1.2.6 toe puff and stiffener skiving
- 1.3 Handling and care requirements of materials.
- 1.4 Common problems and faults of materials are identified.

1.5 personal protective equipment

- 1.5.1 hearing protection
- 1.5.2 safety harness

LO2 Perform bottom component operations

- 2.1 Sequence of operation for the preparation of the bottom components.
- 2.2 Insole, toe puffs, counters of the footwear procedure.
- 2.3 Molds for the molding of the insoles.
- 2.4 Molding of insoles in relation to the last.

Footwear Production Operations level II	Version: 1 - 2016	Page 33 of 57
	Copyright/Author: DILLA TVET collage	

2.5 Method of hea	al attaching to the leather sole.
2.6 Problems and	I faults.
requirements. 2.7.1 2.7.2 2.7.3 2.7.4 2.7.5 2.7.6 2.7.6 2.7.7 2.7.8	identifying and reporting hazards safe lifting, carrying and manual handling the provision of safety decals and signage the safe handling and storage of hazardous substances the appropriate use, maintenance and storage of personal protective equipment working in confined spaces the protection of people in the workplace protection from hazardous noise, organic and other dusts Routine maintenance of the machine is carried out.
3.1 Critical stages	of the inspections.
3.2Quality checks	design of footwear and last.
3.3 Report and re	ecord.

LEARNING STRATEGIES:

	Reasonable adjustme	ent for trainees with disability	(TWD)
	hard of hearing	Visual impaired	Physical disability
Lecture-discussion	 Slide presentation during lecture Sign language interpreter Give Softcopy/printed lecture material before class Provide the lecture in titled Video/ Film 	 Give Braille printed lecture material before class Bold print for low vision 	Give Softcopy/printed lecture material before class
Demonstration	 Provide recorded video of demonstration Sign language interpreter 	 Provide audio recorded demonstration instruction 	 Making special assistant during work/assignment as per necessary
Group work / Individual assignment	 Sign language interpreter 	 Guide/assistant/ Provide audio recorded work/assignment instruction 	 Making special assistant during work/assignment as per requirement Group Work Activity/Group

Footwear Production Operations level II	Version: 1 - 2016	Page 34 of 57
	Copyright/Author: DILLA TVET collage	Fage 34 01 57

			Partner with Person
			without disability

ASSESSMENT MET	1005:		
Oral questioning	 Sign language interpreter Question in written form 		
Written test		 Braille printed test Alter to Oral question if must Additional time for assessment 	 Additional time for assessment If written exam is not comfortable alter to Oral exam
Demonstration	 Sign language interpreter 	 Guide/assistant Making special assistant during work/assignment as per requirement Additional time for assessment 	 Making special assistant during work/assignment as per requirement Additional time for assessment

ASSESSMENT CRITERIA:

LO1 Identify and prepare tools, materials and equipment

1.1 *Materials* used as bottom component are identified and selected for appropriateness.

- 1.2 Machines and tools are identified and made ready for operation
- 1.3 Handling and care requirements for materials are performed.
- 1.4 Common problems and faults of materials are identified.
- 1.5 Suitable *personal protective equipment* is selected, used and maintained according to OHS requirements.

LO2 Perform bottom component operations

- 2.1 Sequence of operation for the preparation of the bottom components is identified.
- 2.2 Insole, toe puffs, counters are prepared as per the specification of the footwear and procedure.
- 2.3 Molds for the molding of the insoles are identified.
- 2.4 Molding of insoles in relation to the last is performed.
- 2.5 Method of heal attaching to the leather sole is performed.
- 2.6 Problems and faults are identified and analyzed.
- 2.7 Work area is cleaned and maintained according to OHS and enterprise requirements.
- 2.8 Routine maintenance of the machine is carried out.

LO3 Assess final quality of the bottom components

3.1 Critical stages of the inspections are identified.

3.2 Quality checks in relation to the design of footwear and last is performed.

3.3 Report and record is maintained is communicated and maintained.

Footwear Production Operations level II	Version: 1 - 2016	Page 35 of 57	
	Copyright/Author: DILLA TVET collage	Fage 55 01 57	

Module Code and Title : - IND FWP2 M05 0616 -Performing Bottom Components Operations						
Item No.	Category/Item	Description/ Specifications	Description/ Specifications for TWD	Quantit y	Recommended Ratio (Item: Trainee)	
Α.	Learning Materials					
1.	TTLM	Learning guide	In electronic form(Soft copy, etc)	25	1:1	
2.	Travel goods/upholstery/domestic items making	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	25	1:1	
3.	Leather Goods Maker (Travel)	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	25	1:1	
6.	Leather goods designing and manufacturing	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	25	1:1	
7.	AFPA stitching machinery and related science	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	5	1:5	
8.	Tandy Leather Co. Sewing with leather	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	5	1:5	
9.	Lad bury, Ann Make the most of your sewing machine	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc)	5	1:5	
10.	FDDI the skill of cored flatbed sewing machine.	National Instructional Medial Institute, Chennai		25	1:1	
11.	Reference Books		Braille print	5	1:5	
В.	Learning Facilities & Infrastructure					
1.	Class room	10 X20 M		1	1:25	
2.	Workshop	15 X30 M		1	1:25	

Footwear Production Operations level II	Version: 1 - 2016	Page 36 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	

3.	Visual training media (LCD, Laptops, OHP, transparencies, black board, white board, flip chart)		1	1:25
C.	Consumable Materials			
1	Components (leather/fabric)	Cow Napa ,cow softy	25	1:1
2	Thread	40,60	25	1:1
3	Needle	90,100,110	25	1:1
4	Glue	Rubber solution	25	1:1
5	Velcro		25	1:1
6	Accessories	D, O, Rectangular	25	1:1
D.	Tools and Equipment			
1	Sewing machine	Post bed, flat bed	25	1:1
2	Thread trimmer	Metal	25	1:1
3	Bon folder	Horn, bon	25	1:1
4	glue cane	Plastic	 25	1:1

Footwear Production Operations level II	Version: 1 - 2016	Page 37 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 57 OF 57

LEARNING MODULE 06 TVET-PROGRAMME TITLE: Footwear Production Level II MODULE TITLE: Performing Minor Maintenance MODULE CODE: IND FWP2 M06 2216 NOMINAL DURATION: MODULE DESCRIPTION: This module covers the knowledge, attitudes and skills required to perform basic routine equipment/machine maintenance LEARNING OUTCOMES: At the end of the module the learner will be able to: LO1 Prepare for basic routine maintenance LO2 Carry out basic routine maintenance LO3 Complete basic routine maintenance MODULE CONTENTS: LO1 Prepare for basic routine maintenance 1.1 Tools and supplies 1.1.1 hand tools 1.1.2 personal protective equipment 1.1.3 hand held power tools 1.1.4 grease guns cleaning and maintenance supplies including: 1.1.5 1.1.6 grease, fuel, oil 1.1.7 chemicals, water steam 1.1.8 power and air 1.1.9 dismantling and assembling, 1.1.10 testina 1.1.11 tightening 1.1.12 minor adjustments and repairs 1.1.13 routine servicing procedures including: 1.1.14 lubricating, and checks of cooling system 1.1.15 fuel, grease and oil, and battery levels 1.2 Carried out Routine pre-operational checks of machinery and equipment 1.2.1 Routine safety and pre-start checks and preparatory procedures 1.2.1.1 cleaning 1.2.1.2 lubricating 1.2.1.3 hand sharpening 1.2.1.4 riming pumps 1.2.1.5 clearing filters 1.2.1.6 tightening 1.2.1.7 basic repairs and adjustments 1.3 Faulty or unsafe machinery and equipment. 1.3 .1 Standard Operating Procedures (SOPs) industry standards 1.3.2 1.3.3 production schedules material safety data sheets (MSDS) 1.3.4 1.3.5 work notes and plans

1.3.6 product labels

Footwear Production Operations level II	Version: 1 - 2016	Page 38 of 57	
	Copyright/Author: DILLA TVET collage	Fage 50 01 57	

- 1.3.7 manufacturers specifications 1.3.8 operators' manuals 1.4 enterprise policies and 1.5 OHS hazards. 1.5.1 safe maintenance of equipment 1.5.2 identifying and reporting hazards safe lifting, carrying and manual handling 1.5.3 1.5.4, the provision of safety decals and signage 1.5.5 the safe handling and storage of hazardous substances use, maintenance and storage of personal protective equipment 1.5.6 outdoor work including protection from solar radiation 1.5.7 1.5.8 working in confined spaces the protection of people in the workplace 1.5.9 1.5.9 protection from hazardous noise, organic and other dusts LO2 Carry out basic routine maintenance 2.1. personal protective equipment 2.1.1 hat/hard hat 2.1.2 overalls 2.1.3 gloves 2.1.4 protective eyewear 2.1.5 hearing protection 2.1.6 safety harness, respirator or face mask 2.1.7 sun protection (sun hat, sunscreen) 2.2 Greasing, lubrication and other basic servicing of machinery and equipment 2.3 Routine adjustments and repairs. 2.4 OHS requirements. LO3 Complete basic routine maintenance 3.1 Tools cleaned, returned. 3.2 Environmental procedures. 3.3 measures to reduce excessive noise and exhaust emissions, 3.3 Work area is cleaned and maintained.
 - 3.4 Malfunctions, faults, wear or damage to enterprise requirements.

	Reasonable Adjustment For Trainees With Disability(TWD)			
	hard of hearing	Visual impairment	Physical disability	
Lecture-discussion	 Slide presentation during lecture-discussion Sign language interpreter Give Softcopy/printed lecture material before class Provide the lecture in titled Video/ Film 	 Give Braille printed lecture material before class Bold print for low vision 	 Give Softcopy/printed lecture material before class 	
Demonstration	 Provide recorded video 	Provide audio	Making special assistant	

Footwear Production Operations level II	Version: 1 - 2016	Page 39 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 39 01 57

	of demonstration Sign language interpreter 	recorded demonstration instruction	during work/assignment as per necessary
Group work/individual assignment	Sign language interpreter	 Assign Guide/ assistant/ Provide audio recorded work/assignme nt instruction 	Making special assistant during work/assignment as per requirement Group the trainee with Person without disability

Written tests	 Sign language interpreter Question in written form 		
Oral question		 Braille printed test Alter to Oral question Additional time for assessment 	Additional time for assessment If written exam is not comfortable alter to Oral exam
Demonstration	 Sign language interpreter 	 Guide/assistant Making special assistant during work/assignment as per requirement Additional time for assessment if necessary 	Making special assistant during work/assignment as per requirement Additional time for assessment if necessary

Footwear Production Operations level II	Version: 1 - 2016	Page 40 of 57
Poolwear Production Operations level in	Copyright/Author: DILLA TVET collage	Fage 40 01 37

LO1 Prepa	are for ba	sic routine maintenance
	2	Tools and supplies required to carry out basic routine maintenance tasks are identified, selected and provided on site according to supervisor's instructions.
	3	Routine pre-operational checks of machinery and equipment are carried out and adjustments made according to manufacturer's specifications and/or enterprise procedures.
	4	Faulty or unsafe machinery and equipment are identified and segregated for repair or replacement according to <i>enterprise requirements</i> .
	5	OHS hazards in the workplace are identified and reported to the supervisor.
LO2 Carry	/ out basi	c routine maintenance
	6	Suitable <i>personal protective equipment</i> is stored, selected, used and maintained according to OHS requirements.
	7	Greasing, lubrication and other basic servicing of machinery and equipment is carried out according to operator's manual/manufacturers specifications and supervisor's instructions.
	8	Routine adjustments and repairs are made to machinery and equipment according to operators' manual/manufacturers' specifications and supervisors instructions.
	9 nlete basi	Work is conducted according to OHS requirements and completed to supervisor's satisfaction. ic routine maintenance
	3.5	Tools are cleaned, returned to operating order and stored according to manufacturers' specifications and enterprise requirements.
	3.6	Environmental procedures are followed and waste from maintenance activities is collected, treated and disposed or recycled according to enterprise requirements.
	3.7	Work area is cleaned and maintained according to OHS and enterprise requirements.
	3.8	Malfunctions, faults, wear or damage to tools are reported to the supervisor according to enterprise requirements.

Footwear Production Operations level II	Version: 1 - 2016	Page 41 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 41 01 57

ltem No.	Category/Item	Description/ Specifications	Reasonable Adjustment For TWD	Quantity	Recomm ed Rati (Item: Trainee	
Α.	Learning Materials					
1.	TTLM	Learning guide	In electronic form(soft copy, etc)	25	1:1	
2.	Travel goods/upholstery/domestic items making	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1	
3.	Leather Goods Maker (Travel)	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1	
4.	Leather Goods and Sports Goods Maker	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1	
5.	Leather goods designing and manufacturing	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1	
6	Pattern and template maker	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	5	1:5	
7.	Reference Books	New	Braille print	5	1:5	
8.	Journals/Publication/Magazines	Recent	In electronic form(soft copy, etc)	3	1:8	
В.	Learning Facilities & Infrastructure					
1.	Class room		Standard	1	1:25	

Footwear Production Operations level II	Version: 1 - 2016	Page 42 of 57
	Copyright/Author: DILLA TVET collage	

-

SODDO PLÓY TECHNIC COLLEGE Outcome-based curriculum – Footwear Production Operations level II

2.	Workshop		Standard	1	1:25
3.	Visual training media (LCD, Laptops, OHP, transparencies, black board, white board, flip chart)			1	1:25
C.	Consumable Materials				
1	Paper	Gold A4		1 packet	1:5
2	Pencil	HP		25	1:1
D.	Tools and Equipment				
1	Measuring tape			25	1:1
2	Ruler			25	1:1
3	Thickness gauge			25	1:1
4	Try-square			25	1:1
5	Protractor			25	1:1

Footwear Production Operations level II	Version: 1 - 2016	Dogo 42 of 57
	Copyright/Author: DILLA TVET collage	Page 43 of 57

LEARNING MODULE 07				
IVET-PROGRAMME TITLE: Basic Footwear Production Operations Level I				
MODULE TITLE: Performing Basic Lasting Operation				
MODULE CODE: IND FWP2 M07 2216				
NOMINAL DURATION: 16 Hours				
MODULE DESCRIPTION : This module covers the skills and knowledge required to perform basic lasting operation.				
LO1 Identify tools LO2 Perform basic LO3 Identify and p	e the learner will be able to: , materials and equipment c lasting procedure perform post manual lasting operations ality check of the finished pair			
LO1 Identify tools	, materials and equipment Hand lasting <i>materials</i> and <i>tools</i> .			
	 1.1.1 insole 1.1.2 toe puff 1.1.3 stiffener 1.1.4 upper 1.1.5 last 1.1.6 sole such as- leather, PVC, PU 1.1.7 adhesive 1.1.8 finishes 1.1.9 solvents 1.1.10 waxes 1.1.11 laces 1.1.12 lining materials 1.1.13 packing materials 1.1.14 pincer 1.1.15 lasting jack 1.1.16 scissors 1.1.17 brushes for adhesives 1.18 hammer 			
1.2	Identify, arrange and made ready Machines for products. 1.2.1 roughing machine 1.2.2 wrinkle chasing 1.2.3 heat setting 1.2.4 adhesive activator			
1 3	1.2.5 sole pressing1.2.6 polishing machineBasic methods of lasting			

Footwear Production Operations level II	Version: 1 - 2016	Page 44 of 57
Footwear Froudction Operations level in	Copyright/Author: DILLA TVET collage	Fage 44 01 57

	3.4	Sole press pressure and timing.
	3.4	Sole press pressure and timing.
	\sim	
· · · ·		
;	3.3	Uses and application of the adhesive.
;	3.2	Soles preparation.
	3.1	Heat setting temperature and timing.
•	-	
		perform post manual lasting operations
	2.4	Appropriate method of attaching insoles with enterprise procedures.
	2.3	Correct methods of toe-puff and counter stiffener attachment.
2	2.2	Sequences of drafting.
	2.1 2.2	Essential drafting pulls Sequences of drafting.

	Reasonable Adjustment For Trainees With Disabilities(TWD)		lities(TWD)
	hard of hearing	Visual Impairment	Physical disability
Lecture/Discussion	 Sign language interpreter use slide presentation 	Recorded lecture/discussion voice	Provide softcopy/lecture material before class
Demonstration	Sign language interpreter	Guide/assistant	
Group work/Individual assignment	 Sign language interpreter 		
ASSESSMENT METHODS:			
Oral questioning	 Sign language interpreter Question in written form 		
Written test		Braille written test	
Demonstration	Sign language Interpreter	Guide/assistant/pee r	

Footwear Production Operations level II	Version: 1 - 2016	Page 45 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	

Footwar Production Operations loval II	Version: 1 - 2016	Page 46 of 57
Footwear Production Operations level II	Copyright/Author: DILLA TVET collage	Fage 40 01 57

ASSESSMEN LO1 Identifv		s, materials and equipment
	1.1	Hand lasting <i>materials</i> and <i>tools</i> are identified and checked for appropriateness and functionality.
	1.2	<i>Machines</i> are identified, arranged and made ready for specified products.
	1.3	Basic methods of lasting are described and appropriate method identified for the job order or specification.
LO2 Perform		ic lasting procedure
	2.1	Essential drafting pulls are identified.
	2.2	Sequences of drafting are performed in accordance with standard procedures.
	2.3	Correct methods of toe-puff and counter stiffener attachment are performed.
LO3 Identify	2.4 and	Appropriate method of attaching insoles are identified and performed in accordance with enterprise procedures. perform post manual lasting operations
	3.1	Heat setting temperature and timing is determined.
	3.2	Soles preparation is performed as per the specification and procedure.
	3.3	Uses and application of the adhesive is described and performed.
	3.4	Sole press pressure and timing are determined and performed.
	3.5	Work area is cleaned and maintained according to OHS and enterprise requirements.
04 Dotorm	3.6	Environmental procedures are followed and waste from maintenance activities is collected, treated and disposed or recycled according to enterprise requirements.
LO4 Determ	-	uality check of the finished pair
	4.1	Final checks on the footwear is identified and performed.
	4.2	Method of handling of the complete finished shoe is described and demonstrated.
	4.3	Method of packing the finished shoe is described and performed.
	4.4	Work area is cleaned and maintained according to OHS and enterprise requirements.

Footwear Production Operations level II	Version: 1 - 2016	Page 47 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 47 01 57

			· - ·· ·		15
ltem No.	Category/Item	Description/ Specifications	Reasonable Adjustment For(TWD)	Quantity	Recomm nded Rat (Item: Trainee)
Α.	Learning Materials				
1.	TTLM	Learning guide	In electronic form(soft copy, audio, video etc) and Braille form	25	1:1
2.	Travel goods/upholstery/domestic items making	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1
3.	Leather Goods Maker (Travel)	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	25	1:1
4	Pattern and template maker	National Instructional Medial Institute, Chennai	In electronic form(soft copy, etc)	5	1:5
.5	Reference Books		Braille print	5	1:5
6.	Journals/Publication/Magazines	Recent	In electronic form(soft copy, etc)	3	1:8
В.	Learning Facilities & Infrastructure				
1.	Class room	10 X20 M		1	1:25
2.	Library	10 X20 M			
3	Workshop	15 X30 M		1	1:25
4	Visual training media (LCD, Laptops, OHP, transparencies, black board, white board, flip chart)			1	1:25
C.	Consumable Materials	1	1		1
1	Paper	Gold A4		25	1:1
2	Pencil	НВ			

Footwear Production Operations level II	Version: 1 - 2016	Page 48 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 40 01 57

SODDO PLÓY TECHNIC COLLEGE Outcome-based curriculum – Footwear Production Operations level II

3	Drawing bored	Hard carton	25	1:1
4	Eraser		25	1:1
D.	Tools and Equipment		25	1:1
1	Drawing table	Metal	25	1:1
2	Pencil sharpener		25	1:1

Footwear Production Operations level II	Version: 1 - 2016	Page 49 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 49 01 57

LEARNING MODULE	18	
TVET-PROGRAMME T	ITLE: Footwear Production Level II	
MODULE TITLE: Performing Footwear Finishing Operations		
MODULE CODE: IND	FWP2 M08 2216	
NOMINAL DURATION:		
MODULE DESCR This module covers	RIPTION: the skills and knowledge to perform footwear finishing operations.	
LEARNING OUT At the end of the mod LO1 Prepare works LO2 Finish work LO3 Dispatch footw	ule the learner will be able to: station	
MODULE CONTE	-	
1.1	 Workbench and seating are set up and prepared according to safety standar and OHS practices. 1.1.1manual handling techniques 1.1.2 standard operating procedures 1.1.3 personal protective equipment 1.1.4 safe materials handling 1.1.5 taking of rest breaks 1.1.6 ergonomic arrangement of workplaces 1.1.7 following marked walkways 1.1.8 safe storage of equipment 1.1.9 housekeeping 1.1.10 reporting accidents and incidents 1.1.11 environmental practices 	
1.2	Components are laid out in correct sequence 1.2.1 buckles 1.2.2 labels 1.2.3 heel pads 1.2.4 laces	
LO2 Finish work		
2.1	Finishing operations. 2.1.1 trimming loose threads 2.1.2 checking 2.1.3 spraying 2.1.4 cleaning 2.1.5 polishing 2.1.6 hand or machine sewing buckles 2.1.7 attaching accessories or trims 2.1.8 inserting heel cushion pads 2.1.9 flaring 2.1.10 lining trimming	

Footwear Production Operations level I	Version: 1 - 2016	Page 50 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 50 01 57

	2.1.12 pairing up 2.1.13 boxing 2.1.14 dispatching		
2.2	Footwear.		
2.3	Identify, report and return faults		
2.4	Production and other records		
O3 Dispatch footw	/ear		
3.1	Pieces are bundled, stacked and s	stored or dispatched.	
3.2	Recorded production faults.		
LEARNING STRA	TEGIES:		
	Reasonable adjustment	for trainees with disa	bility (TWD)
	hard of hearing	Visual impaired	Physical disability
Lecture-discussior	 Slide presentation during lecture Sign language interpreter Give Softcopy/printed lecture material before class 	 Give Braille printed lecture material before class Bold print for low vision 	 Give Softcopy/printe lecture materia before class
Group work /	 Guide/assistant/ Provide audio recorded work/assignment instruction 	Making special assistant during work/assignment as per requirement	 Guide/assistan Provide audio recorded work/assignme
Individual		 Group Partner with Person without disability 	instruction
Role-play	 Sign language interpreter 	Guide/assistant	Make special assis if necessary
ASSESSMENT M	ETHODS		
Oral questioning	 Sign language interpreter Question in written form 		
Written test		Alter to Oral question if must	 Additional time assessment If written exa not comforta alter to Oral

Footwear Production Operations level II	Version: 1 - 2016	Page 51 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 51 01 57

Demonstration	 Sign language interpreter 	 Guide/assistant Making special assistant during demonstration requirement Additional time for assessment 	Making special assistan during demonstration requirement > Additional time for assessment
ASSESSMENT CRI	ITERIA:		
LO1 Prepare works	station		
1.1	Workbench and seating are and OHS practices .	set up and prepared accord	ing to safety standards
1.2 .02 Finish work	Components are laid out in	i correct sequence	
2.1	Finishing operations are p	performed according to custo	mer specifications.
2.2		st specifications to ensure co	
2.3	C C	ed and returned to appropriat	·
2.4	Production and other record	ls are completed.	
2.5	Action is taken according to eliminate risks to personal s		ccidents and to
.O3 Dispatch foot			
3.3	Pieces are bundled, stacked		
3.4	Production faults are record		
3.5	Records are completed follo	owing standards and formats	

Footwear Production Operations level II	Version: 1 - 2016	Page 52 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 52 of 57

••			Description/		Recommend
ltem No.	Category/Item	Description/ Specifications	Specifications for TWD	Quantity	
A.	Learning Materials				
1.	TTLM	Learning guide	In electronic form(Soft copy, etc	25	1:1
-	Travel goods/upholstery/domestic items making	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc	25	1:1
3.	Leather Goods Maker (Travel)	National Instructional Medial Institute, Chennai	In electronic form(Soft copy, etc	25	1:1
4.	Reference Books		Braille print	5	1:5
5.	Journals/Publication/Magazines			3	1:8
В.	Learning Facilities & Infrastructure				
1.	Class room	10 X20 M		1	1:25
2.	Library	15 X 30 M		1	1:25
3	Workshop			1	1:25
4.	Visual training media (LCD, Laptops, OHP, transparencies, black board, white board, flip chart)			1	1:25
C.	Consumable Materials				
1	Raw material (leather, lining)			25	1:1
2	Finished product			25	1:1
D.	Tools and Equipment				
1	Calculator	+		25	1:1

Footwear Production Operations level II	Version: 1 - 2016	Page 53 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	

T				1
				1
				1
				1
				1

Footwear Production Operations level II	Version: 1 - 2016	Page 54 of 57	
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Page 54 of 57	

	TVET-PROGRAMME TITLE: Footwear Production Level II				
	lying Basic Ergonomics				
MODULE CODE: IND	·····				
NOMINAL DURATION:					
MODULE DESCR This module cove principles	RIPTION: rs the knowledge, attitudes and skills required to perform basic ergonol				
LEARNING OUT					
	ule the learner will be able to:				
	cs of human factors engineering				
LO2 Design workpl LO3 Apply design					
MODULE CONTE	INTS:				
LO1 Describe bas	ics of human factors engineering				
1.3 ld	Requirements to design the work place The distance between the machines and the operator.				
3.1	Application of the ergonomics in clicking and stitching operations				
3.2	Design Workplace economy of movements. 3.2.1 production room design 3.2.2 application of reaches 3.2.3 considering resource available 3.2.4 type of work performed				
3.3	 Safety procedures and OHS practices. 3.3.1 safe maintenance of equipment 3.3.2 identify and report hazards 3.3.4 safe lifting, carrying and manual handling 3.3.5 use, maintenance and storage of personal protective equipment 3.3.6 protection from hazardous noise, organic and other dusts 				

Footwear Production Operations level II	Version: 1 - 2016	Page 55 of 57	
Follwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 55 01 57	

	Reasonable adjustment for trainees with disability (TWD)		ith disability (TWD)
	hard of hearin	ng Visual impaired	Physical disability
 Lecture-disc 	ussion > Sign langu interpreter		
Group worki	ng > Sign lang interpreter		
 Role- playing 	g ➤ Sign langu .interprete	-	
ASSESSMENT ME	THODS:		
 written tests 	 Sign languinterpreter Question invitten for 	r in	
 Oral question 	ning	> Braille/peer	
Demonstration	on > Sign langu interpreter Practice		
ASSESSMENT CR	TERIA:		
LO1 Describe basi	cs of human factors eng	gineering	
3	Causes of stress in w	ork area are identified.	
4	Causes of fatigue in wo	ork area are identified.	
5	Work load is considere	d and identified.	
6	Hazards that will occur	r are identified	
LO2 Design workp	lace		
2.3	Requirements to design	n the work place are identified.	
2.4	The reach concept is a	ddressed.	
2.5 LO3 Apply design	The distance between	the machines and the operator	is identified.
3.4	Application of the ergo implemented.	pnomics in clicking and stitching	operations is
3.5	Workplace is designed	d following economy of moveme	ents.
		d OHS practices are incorporat	

Footwear Production Operations level II	Version: 1 - 2016	Page 56 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 50 01 57

Mod	lule Code and Title : - IN	ID FWP2 M09 061	6- Applying Basic	Ergonomi	cs principles
ltem No.	Category/Item	Description/ Specifications	Description/ Specifications for TWD	Quantity	Recommended Ratio (Item: Trainee)
А.	Learning Materials				
1	TTLM	Learning guide	In electronic form(Soft copy, etc	1	1:25
2	Hand out	Note on team work principle	In electronic form(Soft copy, etc	25	1:1
В.	Learning Facilities & Infrastructure				
1.	Lecture room	10 X20 M		1	1:25
2.	Library	10 X20 M		1	1:25
3	Work Shop	15 X30 M		1	1:25
C.	Consumable Materials				
1.	Paper	Gold 4 A		25pcs	1:1
D.	Tools and Equipment				
1.	Computer	Dell 7010		1	1:25
2.	LCD projector	Sony		1	1:25

Footwear Production Operations level II	Version: 1 - 2016	Page 57 of 57
rootwear Production Operations level in	Copyright/Author: DILLA TVET collage	rage 37 of 37

TVET-PROGRAMME TITLE: Footwear Production Level II

MODULE TITLE: Participating in Workplace Communication

MODULE CODE: IND FWP2 M10 2216

NOMINAL DURATION:

MODULE DESCRIPTION:

This module covers the knowledge, attitudes and skills required to gather, interpret and convey information in response to workplace requirements.

LEARNING OUTCOMES:

At the end of the module the learner will be able to:

LO1 Obtain and convey workplace information

LO2 Participate in workplace meetings and discussions

LO3 Complete relevant work related documents

MODULE CONTENTS:

LO1 Obtain and convey workplace information

- 1.1 Specific and relevant information.
 - 1.1.1 Team members
 - 1.1.2 Different athletics club athletes
 - 1.1.3 Local government
 - 1.1.4 institutional bodies
- 1.2 Effective questioning, active listening and speaking.
- 1.3 Appropriate *medium* to transfer information and ideas.
 - 1.3.1 Memorandum
 - 1.3.2 Circular
 - 1.3..3 Notice
 - 1.3.4 Information discussion
 - 1.3.5 Follow-up or verbal instructions
 - 1.3.6 Face to face communication
- 1.4 Appropriate non- verbal communication.
- 1.5 Appropriate lines of communication with coach and colleagues
- 1.6 Defined workplace procedures for the location and *storage* of information.
- 1.7 Personal interaction is carried out clearly and concisely.

LO2 Participate in workplace meetings and discussions

- 2.1 Team meetings.
- 2.2 Own opinions are clearly expressed and those of others are listened to without interruption.
- 2.3 Meeting inputs are consistent with the meeting purpose and established *protocols.*

Footwear Production Operations level II	Version: 1 - 2016	Daga 58 of 57
Followear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Page 58 of 57

- 1.4 Observing meeting
- 1.5 Compliance with meeting decisions
- 1.6 Obeying meeting instructions
- 2.4 Workplace interactions.
 - 2.4.1 Face to face
 - 2.4.2 Telephone
 - 2.4.3 Written including.
- 2.5 Meetings outcomes.

LO3 Complete relevant work related documents

- 3.1 Training place data
- 3.2 Basic mathematical processe **s** for routine calculations.
- 3.3 Errors in recording information on forms/ documents Reporting.

	Reasonable adjustment for trainees with disability (TWD)		
	hard of hearing	Visual impaired	Physical disability
Lecture-discussion Group work / Individual assignment	 Slide presentation during lecture Sign language interpreter Provide the lecture in titled Video/ Film Sign language interpreter 	 Give Braille printed lecture material before class Bold print for low vision Guide/assistant/ Provide audio recorded work/assignment instruction 	 Give Softcopy/printed lecture material before class Making special assistant during work/assignment as per requirement Group Partner with Person without
-			disability
Role-play	 Sign language interpreter 	Guide/assistant	Making special assistant during roleplay as per requirement
ASSESSMENT METHOD	DS:		
Written tests	 Sign language interpreter Question in written 		

Footwear Production Operations level II	Version: 1 - 2016	Page 59 of 57	
rootwear rroutetion operations level in	Copyright/Author: DILLA TVET collage	Fage 39 01 57	

	form
Oral question	➢ Written test
Demonstration	 Sign language interpreter Practice Guide/assistant
ASSESSMENT CR	ITERIA:
LO1 Obtain and co	onvey workplace information
1.1	Specific and relevant information from <i>appropriate sources</i> is accessed.
1.2	Effective questioning, active listening and speaking skills to gather and convey information are used.
1.3	Appropriate <i>medium</i> to transfer information and ideas is used.
1.4	Appropriate non- verbal communication is used.
1.5	Appropriate lines of communication with coach and colleagues are identified and followed.
1.6	Defined workplace procedures for the location and storage of information are used.
1.7 LO2 Participate in	Personal interaction is carried out clearly and concisely. workplace meetings and discussions
2.1	Team meetings are attended on time.
2.2	Own opinions are clearly expressed and those of others are listened to without interruption.
2.3	Meeting inputs are consistent with the meeting purpose and established protocols.
2.4	Workplace interactions in a courteous manner are conducted.
2.5	Questions about simple routine workplace procedures and matters concerning working conditions are asked and responded.
2.6	Meetings outcomes are interpreted and implemented.
LO3 Complete rele	evant work related documents
3.1	Training place data on standard workplace forms and documents is recorded.
3.2	Basic mathematical processes for routine calculations are used.
3.3	Errors in recording information on forms/ documents are identified and properly acted upon.
3.4	Reporting requirements to coaches according to organizational guidelines are

Footwear Production Operations level II	Version: 1 - 2016	Page 60 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 00 01 57

	Module Code and Title : - IND	D FWP2 M10 061	6- Working in te	eam envir	onment
ltem No.	Category/Item	Description/ Specifications	Description/ Specifications for TWD	Quantity	Recommende d Ratio (Item: Learner)
А.	Learning Materials				
1.	TTLM	Learning guide	In electronic form(Soft copy, etc	25	1:1
2.	Textbooks	Module	In electronic form(Soft copy, etc	25	1:1
3.	Reference Books	Recent ed.	Braille print	5	1:5
4.	Journals/Publication/Magazin es	Recent ed.	In electronic form(Soft copy, etc	2	1:12
В.	Learning Facilities & Infrastructure				
1.	Lecture Room			1	1:25
2.	Library			1	1:25
С.	Consumable Materials				
1.	Paper	Gold A 4		25	1:1
2	CD	RW 700MB		5	1:5
D.	Tools and Equipment				
1.	LCD	Sony		1	1:25
2	Computers	Dell 7010		1	1:25

Footwear Production Operations level II	Version: 1 - 2016	Page 61 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage of of 57

TVET-PROGRAMME TITLE: Footwear Production Level II

MODULE TITLE: Working in Team Environment

MODULE CODE: IND FWP2 M11 0616

NOMINAL DURATION:

MODULE DESCRIPTION:

This module covers the knowledge, attitudes and skills required to identify role and responsibility as a member of a team.

LEARNING OUTCOMES:

At the end of the module the learner will be able to:

LO1 Describe team role and scope

LO2 Identify own role and responsibility within team

LO3 Work as a team member

MODULE CONTENTS:

LO1 Describe team role and scope

- 1.1 Identify *role* and objectives of the team.
 - 1.1.1 Work activities in a team environment
 - 1.1.2 Limited discretion, initiative and judgment
 - 1.1.3 Standard training procedures
 - 1.1.4 Institution specifications and instructions
 - 1.1.5 institutional or external personnel
 - 1.1.6 athletes and coach instructions
 - 1.1.7 Quality standards
 - 1.1.8 OHS and environmental standards

LO2 Identify own role and responsibility within team

- 2.1 Individual role and responsibilities within the team environment
- 2.2 Roles and responsibility of other team members
- 2.3 Reporting relationships within team and external to team

LO3 Work as a team member

- 3.1 Effective and appropriate forms of communications
- 3.2 Effective and appropriate contributions made to complement team activities and objectives, in workplace context
 - 3.2.1 Training procedures and practices
 - 3.2.2 Conditions of training environments
 - 3.2.3 Legislation and institutional agreements
 - 3.2.4 Safety, environmental, housekeeping and quality guidelines
- 3.3 Observed protocols in reporting
- 3.4 Contribute to the development of team work.

Footwear Production Operations level II	Version: 1 - 2016	Page 62 of 57
rootwear rroduction operations level in	Copyright/Author: DILLA TVET collage	

LEARNING STRATEGIE	S:			
	Reasonable adjustment fo	Reasonable adjustment for trainees with disability (TWD)		
	hard of hearing	Visual impaired	Physical disability	
Lecture-discussion	 Slide presentation during lecture Sign language interpreter Give Softcopy/printed lecture material before class Provide the lecture in titled Video/ Film 	 Give Braille printed lecture material before class Bold print for low vision 	 Give Softcopy/printed lecture material before class 	
Group work / Individual assignment	Sign language interpreter	 Guide/assistant/ Provide audio recorded work/assignment instruction 	Making special assistant during work/assignment as per requirement > Group Partner with Person without disability	
Role-play	 Sign language interpreter 	Making special assistant during role play as per requirement	Making special assistant during role play as per requirement	
ASSESSMENT METHO	DS:			
Written tests	 Sign language interpreter Question in written form 			
Oral question		 Braille printed test Alter to Oral question if must Additional time for assessment 	 Additional time for assessment If written exam is not comfortable alter to Oral exam 	
Demonstration	 Sign language interpreter 	 Guide/assistant Making special assistant during work/assignment as per requirement Additional time for assessment 	 Making special assistant during work/assignment as per requirement Additional time for assessment 	

Footwear Production Operations level II	Version: 1 - 2016	Page 63 of 57
	Copyright/Author: DILLA TVET collage	Fage 03 01 37

ASSESSMENT CRITERIA:

LO1 Describe team role and scope

- 1.1 The *role and objectives of the team* are identified from available *sources of information*
- 1.2 Team parameters, reporting relationships and responsibilities are identified from team discussions and appropriate external sources

LO2 Identify own role and responsibility within team

- 2.1 Individual role and responsibilities within the team environment are identified
- 2.2 Roles and responsibility of other team members are identified and recognized
- 2.3 Reporting relationships within team and external to team are identified

LO3 Work as a team member

- 3.1 Effective and appropriate forms of communications used and interactions undertaken with team members who contribute to known team activities and objectives
- 3.2 Effective and appropriate contributions made to complement team activities and objectives, based on individual skills and competencies and *workplace context*
- 3.3 Observed protocols in reporting using standard operating procedures
- 3.4 Contribute to the development of team work plans based on an understanding of team's role and objectives and individual competencies of the members.

Footwear Production Operations level II	Version: 1 - 2016	Page 64 of 57
Footwear Froudction Operations level in	Copyright/Author: DILLA TVET collage	Fage 04 01 57

Module Code and Title : - IND FWP2 M11 0616- Working in team environment					
ltem No.	Category/Item	Description/ Specifications	Description/ Specifications for TWD	Quantity	Recommende d Ratio (Item: Learner)
А.	Learning Materials				
1.	TTLM	Learning guide	In electronic form(Soft copy, etc	25	1:1
2.	Textbooks	Module	In electronic form(Soft copy, etc	25	1:1
3.	Reference Books	Recent ed.	Braille print	5	1:5
4.	Journals/Publication/Magazin es	Recent ed.	In electronic form(Soft copy, etc	2	1:12
В.	Learning Facilities & Infrastructure				
1.	Lecture Room	10 X20 M		1	1:25
2.	Library	10 X20 M		1	1:25
3	Work shop	15 X 30 M		1	1:25
С.	Consumable Materials				
1.	Paper	Gold A 4		25	1:1
2	CD	RW 700MB		5	1:5
D.	Tools and Equipment				
1.	LCD	Sony		1	1:25
2	Computers	Dell 7010		1	1:25

Footwear Production Operations level II	Version: 1 - 2016	Dage 65 of 57
	Copyright/Author: DILLA TVET collage	Page 65 of 57

TVET-PROGRAMME TITLE: Footwear Production Level II

MODULE TITLE: Developing Business Practice

MODULE CODE: IND FWP2 M12 0616

NOMINAL DURATION:

MODULE DESCRIPTION:

This module specifies the outcomes required to establish a business operation from a planned concept. It includes researching the feasibility of establishing a business operation, planning the setting up of the business, implementing the plan and reviewing operations once commenced

LEARNING OUTCOMES:

At the end of the module the learner will be able to:

LO1 Identify business opportunity

LO2 Identify personal business skills

LO3 Plan for establishment of business operation

LO4 Implement establishment plan

LO5 Review implementation process

MODULE CONTENTS:

LO1 Identify business opportunity

1.1 **Business opportunities**.

- 1.1.1 expected financial viability
 - 1.1.2 skills of operator
 - 1.1.3 amount and types of finance available
 - 1.1.4 returns expected or required by owners
 - 1.1.5 likely return on investment
 - 1.1.6 finance required
 - 1.1.7 lifestyle issues
- 1.2 Feasibility study *business viability*.
 - 1.2.1 opportunities available
 - 1.2.2 market competition
 - 1.2.3 timing/ cyclical considerations
 - 1.2.4 skills available
 - 1.2.5 resources available
 - 1.2.6 location and/ or premises available
 - 1.2.7 risk related to a particular business opportunity, especially
 - 1.2.8 in regard to Occupational Health and Safety and
 - 1.2.9 environmental considerations
- 1.3 Market research on product or service
- 1.4 Assistance with feasibility study of *specialist and relevant parties* 1.4.1 Chamber of Commerce
 - 1.4.3 financial planners and financial institution accountants
 - 1.4.3 lawyers and providers of legal advice
 - 1.4.4. government agencies

Footwear Production Operations level II	Version: 1 - 2016	Page 66 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 00 01 57

	.4.5 Industry/trade associations .4.6 online gateways
1	.4.7 business brokers/business consultants
1.5	Impact of emerging or changing technology
1.6	Practicability of business opportunity.
1.7	Business plan.
LO2 Identify perso	onal business skills
2.1	Financial and business skills business opportunities.
2.2	 Personal skills/attributes business opportunity. 2.2.1 technical and/ or specialist skills 2.2.2 business knowledge and skills 2.2.3 entrepreneurship 2.3.4 willingness to take risks
2.3	Business risks. 2.3.1.occupational health and safety and environmental 2.3.2 considerations 2.3.3 relevant legislative requirements 2.3.4 security of investment 2.3.5 market competition 2.3.6 security of premises/ location 2.3.7 supply and demand 2.3.8 resources available blishment of business operation
	· · · · · · · · · · · · · · · · · · ·
3.1	Business structure and operations.
3.2	Procedures to guide operations.
3.3	Financial backing for business operation.
3.4	Business legal and regulatory requirements
3.5	Human and physical resources
	 3.5.1 software and hardware 3.5.2 office premises 3.5.3 communications equipment 3.5.4 specialist services through outsourcing, contracting and 3.5.5 consultancy 3.5.6 staff 3.5.7 vehicles
3.5	Recruitment strategies.
LO4 Implement es	stablishment plan
	41. Marketing of business operation.
	 4.2 Physical and human resources to implement business operation. 4.3 office location staffed with required personnel and equipped 4.4 home-based site or other location such as leased or owned property 4.5 Monitoring process for managing operation 4.6 Legal documents
	4.7 partnership agreements, constitution documents, statutory books

Footwear Production Operations level II	Version: 1 - 2016	Page 67 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 07 01 57

	for companies 4,8 Recordkeeping including personnel, financial, taxation, OHS and environmental
4.1	Contractual procurement rights for goods and services
	 4.1.1 Owners 4.1.2 Suppliers 4.1.3 employees 4.1.4 landlords 4.1.5 agents 4.1.6 distributors 4.1.7 customers
4.2	Options for leasing/ownership of business premises
LO5 Review imple	mentation process
5.1	Review process for implementation of business operation
5.2	Improvements in business operation and associated management process.
5.3	Identified improvements are implemented and monitored for effectiveness.
5.4	Complete and records Necessary documentation

	Reasonable adjustment for	trainees with disability	r (TWD)
	hard of hearing	Visual impaired	Physical disability
Lecture-discussion	 Slide presentation during lecture Sign language interpreter Give Softcopy/printed lecture material before class Provide the lecture in titled Video/ Film 	 Give Braille printed lecture material before class Bold print for low vision 	 Give Softcopy/printed lecture material before class
Demonstration	 Provide recorded video of demonstration Sign language interpreter 	 Provide audio recorded demonstration instruction 	Making special assistant during work/assignmen as per necessary
Group work / Individual	 Sign language interpreter 	 Guide/assistant Provide audio 	 Making special assistant during work/assignmen

Footwear Production Operations level II	Version: 1 - 2016	Page 68 of 57
roduction operations level in	Copyright/Author: DILLA TVET collage	rage 00 01 57

ASSESSMENT M	ETHODS:		recorded work/assignme nt instruction	>	as per requirement Group Partner with Person without disability
Written tests	 Sign language interpreter Question in written form 				
Oral question		 ≻ Al if I ≻ Ad 	aille printed test ter to Oral question, must ditional time for sessment	A A	Additional time for assessment If written exam is not comfortable alter to Oral exam
Demonstration	 Sign language interpreter 	as wo pe ≻ Ad	aking special sistant during ork/assignment as er requirement ditional time for sessment	4	Making special assistant during work/assignment as per requirement Additional time for assessment
ASSESSMENT CR					
1.1	Business opportunitie	əs are ir	nvestigated and identil	fied.	
1.2	Feasibility study is unde	ertaken	to determine likely bu	siness	viability.
1.3	Market research on proc	duct or	service is undertaken		
1.4	Assistance with feasibil required.	ility stuc	ly of specialist and r e	elevant	<i>parties</i> is sought as
1.5	Impact of emerging or closed operations is evaluated.	• •	g technology including	e-com	merce, on business
1.6	Practicability of business sought and resources av			e with p	erceived risks, returr
1.7 LO2 Identify perso	Business plan for opera onal business skills	ation is o	completed.		
2.1	Financial and business	skills av	vailable are identified a	and take	en into account wher

business opportunities are researched.

	2.2	Personal skills/attributes are assessed and matched against those perceived as necessary for a particular business opportunity.
	2.3	Business risks are identified and assessed according to resources available and personal preferences.
LO3 Plan for	establis	shment of business operation
	3.1	Business structure and operations are determined and documented.
	3.2	Procedures to guide operations are developed and documented.
	3.3	Financial backing for business operation is secured.
	3.4	Business legal and regulatory requirements are identified and complied.
	3.5	Human and physical resources required to commence business operation are determined.
	3.6	Recruitment strategies are developed and implemented.
LO4 Implem	ent estal	blishment plan
	4.1	Marketing of business operation is undertaken.
	4.2	Physical and human resources to implement business operation are obtained.
	4.3	Operational unit to support and coordinate business operation is established.
	4.4	Monitoring process for managing operation is developed and implemented.
	4.5	<i>Legal documents</i> are carefully maintained and relevant records are kept and updated to ensure validity and accessibility.
	4.6	Contractual procurement rights for goods and services including <i>contracts with relevant people</i> , negotiated and secured as required in accordance with the business plan.
		Options for leasing/ownership of business premises identified and contractual arrangements completed in accordance with the business plan.
LO5 Review	implem	entation process
		Review process for implementation of business operation is developed and implemented.
	5.2	Improvements in business operation and associated management process are identified.
	5.3	Identified improvements are implemented and monitored for effectiveness.
		Necessary documentation are completed and records organized and kept securely.

Footwear Production Operations level II	Version: 1 - 2016	Page 70 of 57
Footwear Froudction Operations level in	Copyright/Author: DILLA TVET collage	Fage 70 01 57

N	Nodule Code and Title : - IND	FWP2 M12 0616	Developing B	Business	Practice
ltem No.	Category/Item	Description/ Specifications	Description/ Specifications for TWD	Quantity	Recommende d Ratio (Item: Learner)
Α.	Learning Materials				
1.	TTLM	Learning guide	In electronic form(Soft copy, etc	25	1:1
2.	Textbooks	Module	In electronic form(Soft copy, etc	25	1:1
3.	Reference Books	Recent ed.	Braille print	5	1:5
4.	Journals/Publication/Magazin es	Recent ed.	In electronic form(Soft copy, etc	2	1:12
В.	Learning Facilities & Infrastructure				
1.	Lecture Room			1	1:25
2.	Library			1	1:25
С.	Consumable Materials				
1.	Stationery			25	1:1
2	CD	RW 700MB		5	1:5
D.	Tools and Equipment				
1.	LCD			1	1:25
2	Computers			1	1:25

Footwear Production Operations level II	Version: 1 - 2016	Page 71 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage / 1 of 5/

TVET-PROGRAMME TITLE: Footwear Production Level II

MODULE TITLE: Applying Continuous Improvement Processes (Kaizen)

MODULE CODE: IND FWP2 M13 0616

NOMINAL DURATION:

MODULE DESCRIPTION:

This module of competence covers the exercise of good workplace practice and effective participation in quality improvement teams. Personnel are required to ensure the quality and integrity of their own work, detect non-conformances and work with others to suggest improvements in productivity and quality.

LEARNING OUTCOMES:

At the end of the module the learner will be able to:

LO1 Satisfy quality system requirements in daily work

LO2 Analyze opportunities for corrective and/or optimization action

LO3 Recommend corrective and/or optimization actions

LO4 Participate in the implementation of recommended actions

LO5 Participate in the development of continuous improvement strategies

MODULE CONTENTS:

LO1 Satisfy quality system requirements in daily work

1.1 Access information on quality system requirements for own job function

1.2 Record and report quality control data with quality system

1.3 quality control procedures

- 1.3.1 standards imposed by regulatory and licensing bodies
- 1.3.2 enterprise quality procedures
- 1.3.3 working to a customer brief or batch card
- 1.3.4 checklists to monitor job progress time, costs and quality standards
- 1.3.5 preparation of sampling plans
- 1.3.6 the use of hold points to evaluate conformance
- 1.3.7 the use of inspection and test plans to check compliance
- 1.4 Recognize and report non-conformances or problems
- 1.5 sustainable energy work practices
 - 1.5.1 examining work practices that use excessive electricity
 - 1.5.2 switching off equipment when not in use
 - 1.5.3 regularly cleaning filters
 - 1.5.4 insulating rooms and buildings to reduce energy use
 - 1.5.5 recycling and reusing materials wherever practicable
 - 1.5.6 minimizing process waste

1.6 Promote sustainable energy principles and work practices to other workers

LO2 Analyze opportunities for corrective and/or optimization action

Footwear Production Operations level II	Version: 1 - 2016	Page 72 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 72 01 57

	2.1	Compare current work practices, procedures and process or equipment performance		
	2.2	Recognize variances that indicate abnormal or sub-optimal performance		
	2.3	Collect and/or evaluate batch and/or historical records to determine possible causes for sub-optimal performance		
	2.4	Use appropriate quality improvement techniques to rank the probabilities of possible causes		
LO3 Rec	omn	nend corrective and/or optimization actions		
:	3.1	Analyze causes to predict likely impacts of changes and decide on the appropriate actions		
:	3.2	Identify required changes to standards and procedures and training		
	3.3	Report recommendations to designated personnel		
		3.3.1 verbal responses		
		3.3.2 data entry into laboratory or enterprise database		
		3.3.3 brief written reports using enterprise performs		
	•	ate in the implementation of recommended actions		
	4.1	Implement approved actions and monitor performance following changes to		
	12	evaluate results Implement changes to systems and procedures to eliminate possible causes		
		Document outcomes of actions and communicate them to <i>relevant</i>		
		personnel		
		4.3.1 supervisors, managers and quality managers		
		4.3.2 administrative, laboratory and production personnel4.3.3 internal/external contractors, customers and suppliers		
LOS Dorf	tiaina	4.3.3 internal/external contractors, customers and suppliers ate in the development of continuous improvement strategies		
	-			
	5.1	Review all relevant features of work practice to identify possible		
		contributing factors leading to sub-optimal performance		
	5.2	Identify options for removing or controlling the risk of sub-optimal performance		
	5.3	Assess the adequacy of current controls, quality methods and systems		
	5.4	Identify opportunities to continuously improve performance		
	5.5	Develop recommendations for continual improvements of work practices, methods, procedures and equipment effectiveness		
	5.6	Consult with appropriate personnel to refine recommendations before		
	-	implementation of approved improvement strategies		
	5.7	Document outcomes of strategies and communicate them to relevant		
		personnel		

Footwear Production Operations level II	Version: 1 - 2016	Page 73 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 73 of 57

	Reasonable adjustm	ent for t	rainees with disability	r (TWD)
	hard of hearing		Visual impaired	Physical disability
Lecture-discussion	 Slide presentatio during lecture Sign language interpreter Give Softcopy/pri- lecture material b class Provide the lectur titled Video/ Film 	inted before ure in	 Give Braille printed lecture material before class Bold print for low vision 	 Give Softcopy/printed lecture material before class
Demonstration	 Provide recorded video of demonst Sign language interpreter 	-	 Provide audio recorded demonstration instruction 	Making special assistant during work/assignment as per necessary
Group work / Individual	Sign language interpreter		 Guide/assistant Provide audio recorded work/assignme nt instruction 	 Making special assistant during work/assignment as per requirement Group Partner with Person without disability
ASSESSMENT ME	THODS:			
Written tests	 Sign language interpreter Question in written form 			
Oral question		 Alt if r Add 	aille printed test eer to Oral question, nust ditional time for sessment	 Additional time for assessment If written exam is not comfortable alter to Oral exam
Demonstration	 Sign language interpreter 	as wc pe ≻ Ad	aking special sistant during ork/assignment as r requirement ditional time for sessment	 Making special assistant during work/assignmen as per requirement Additional time for

Footwear Production Operations level II	Version: 1 - 2016	Page 74 of 57
	Copyright/Author: DILLA TVET collage	Fage 14 01 51

LO1 Satisfy	v quality system requirements in daily work
	1.7 Access information on quality system requirements for own job function
	1.8Record and report quality control data in accordance with quality system
	1.9Follow <i>quality control procedures</i> to ensure products, or data, are of a defined quality as an aid to acceptance or rejection
1	10Recognize and report non-conformances or problems
1	11Conduct work in accordance with sustainable energy work practices
1	12Promote sustainable energy principles and work practices to other workers
LO2 Analy	ze opportunities for corrective and/or optimization action
2	.5 Compare current work practices, procedures and process or equipment performance with requirements and/or historical data or records
2	.6 Recognize variances that indicate abnormal or sub-optimal performance
2	.7 Collect and/or evaluate batch and/or historical records to determine possible causes fo sub-optimal performance
2	.8 Use appropriate quality improvement techniques to rank the probabilities of possible causes
.O3 Recon	mend corrective and/or optimization actions
3.4	Analyze causes to predict likely impacts of changes and decide on the appropriate actions
3.5	Identify required changes to standards and procedures and training
3.6	Report recommendations to designated personnel
4.4 4.9 4.0	 pate in the implementation of recommended actions Implement approved actions and monitor performance following changes to evaluate results Implement changes to systems and procedures to eliminate possible causes Document outcomes of actions and communicate them to <i>relevant personnel</i> pate in the development of continuous improvement strategies
5.8	Review all relevant features of work practice to identify possible contributing factors leading to sub-optimal performance
5. 5. 5. 5.	 Identify options for removing or controlling the risk of sub-optimal performance Assess the adequacy of current controls, quality methods and systems Identify opportunities to continuously improve performance Develop recommendations for continual improvements of work practices, methods, procedures and equipment effectiveness Consult with appropriate personnel to refine recommendations before implementation of approved improvement strategies utcomes of strategies and communicate them to relevant personnel

Footwear Production Operations level II	Version: 1 - 2016	Page 75 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage 75 of 57

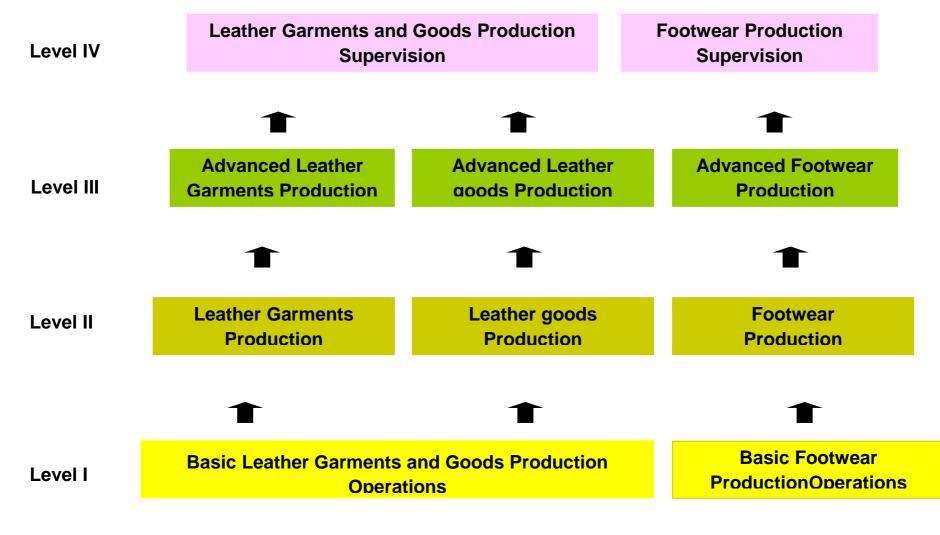
Мо	dule Code and Title : - IND FW	P2 M13 0616- A Process	pplying continu	ous Impi	rovement
ltem No.	Category/Item	Description/ Specifications	Description/ Specifications for TWD		Recommenc ed Ratio (Item: Learner)
Α.	Learning Materials				
1.	TTLM	Learning guide	In electronic form(Soft copy, etc	25	1:1
2.	Textbooks	Module	In electronic form(Soft copy, etc	5	1:5
3.	Reference Books	Recent ed.	Braille print	1	1:25
4.	Journals/Publication/Magazin es	Recent ed.	In electronic form(Soft copy, etc		
В.	Learning Facilities & Infrastructure				
1.	Lecture Room	10 X 20 M		1	1:25
2.	Library	10 X 20 M		1	1:25
3	Work shop	15 x30 m		1	1:25
С.	Consumable Materials				
1.	Paper	A 4Gold		1 Pack	1:5
2	CD	R-CD		25	1:1
D.	Tools and Equipment				
1.	LCD	Sony		1	1:25
2	Computers	Dell 7010		1	1:25

Footwear Production Operations level II	Version: 1 - 2016	Page 76 of 57
	Copyright/Author: DILLA TVET collage	

Footwear Production Operations level II	Version: 1 - 2016	Page 77 of 57
Footwear Froduction Operations level in	Copyright/Author: DILLA TVET collage	Fage // OF S/

Sector: Industry Development

Sub-Sector: Leather Products



Footwear Production Operations level II	Version: 1 - 2016	Page 78 of 57
	Copyright/Author: DILLA TVET collage	Fage 70 01 57

Acknowledgement

Soddo poly technic college wishes to extend thanks and appreciation to curriculum expert and trainer who donated their time and expertise to the development of this outcome based Curriculum for the TVET Program Footwear production and operation level II

We would like also to express our appreciation to the following Staff and Officers people in need who facilitated the development of this curriculum

This outcome based curriculum was developed on June 2016

- No Name Responsibility Telephone e-mail
- 1 Kibituofgaa Trainer 0911082659 Kibituofgaa77@gmail.com
- 2 Wudnehyohannes Curr. expert 0911731980 Wudneh73@gmail.com

Footwear Production Operations level II	Version: 1 - 2016	Page 79 of 57
	Copyright/Author: DILLA TVET collage	Fage 79 01 57

Acknowledgement

A to Tegegne debele and Siyoum negash wishes to extend thanks and appreciation to the many representatives of business, industry, academe and government agencies who donated their time and expertise to the development of this OUT COME BASED CURRICULUM for the SNNP TVET BEURO AND PEOPLE IN NEED DILLA TVET COLLAGE.

We would also like to express our appreciation to the Experts of Central Leather Research Institute (CLRI), Footwear Design & Development Institute (FDDI) Leather Industry Development Institute (LIDI), Ministry of Industry, Ministry of Education (MoE) who developed this Model Curriculum.

Footwear Production Operations level II	Version: 1 - 2016	Page 80 of 57
	Copyright/Author: DILLA TVET collage	Fage 00 01 57

The Management and Staff of DILLA TVET COLLAGE Ato girma dorri (dean) and Ato asfaw kebede (v /dean)

We would like also to express our appreciation to the following Staff and Officers of **PEOPLE IN NEED** especially Ato **Admasseged Alemayehu** who made the development of this curriculum possible.

Footwear Production Operations level II	Version: 1 - 2016	Dece 91 of 57
	Copyright/Author: DILLA TVET collage	Page 81 of 57