

Manufacturing Sanitation Product and Latrine Construction

Basic Short-Term Training Curriculum



TVT Curriculum Version-I Based on May 2023, Version- I Occupational Standard

May 2023 Addis Ababa, Ethiopia



Acknowledgements

Page ii of 29

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Table of Contents

CKNOWLEDGEMENTS	II
REFACE	IV
TVT-PROGRAM DESIGN	5
1.1. TVT-Program Title: Manufacturing Sanitation product and Construction-	-Short
Term training	5
1.2. TVT-Program Description	5
1.3. Training Program Structure	6
1.4. Duration of the TVT-Program	8
1.5. Qualification Level and Certification	9
1.6. Target Groups	9
1.7. Entry Requirements	9
1.8. Mode of Delivery	9
1.9. Institutional Assessment	10
1.10. TVT Teachers Profile	10
1.11. Training and Assessment methodology	11
LEARNING MODULE DESIGN	14
PARTICIPANTS OF THIS MODULE (TRAINING MATERIAL) PREPARATION	28



Preface

The reformed TVT-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 TVT delivery. The requirement from the world of work is analyzed and documented considering international benchmarking – as occupational standards (OS).

In the reformed TVT-System, curricula, and curriculum development play an important role with regard to quality driven comparable TVT-Delivery. The Curricula help to facilitate the training 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).

This curriculum is developed by a group of professional experts from different Regional TVT Bureaus, colleges, Industries, Institutes, and universities based on the occupational standard for Manufacturing Sanitation product and Construction. The curriculum development process has been actively supported and facilitated by MoLS, MoH, MoWE, USAID, PSI, and One WASH national Program.



1. TVT-Program Design

1.1. TVT-Program Title: Manufacturing Sanitation product and Construction-Short Term training

1.2. TVT-Program Description

The Program is designed to develop the necessary knowledge, skills and attitude of the trainees to the standard required by the occupation. The contents of this program are in line with the occupational standard. The Trainees who successfully completed the Program will be qualified to work as an **Manufacturing Sanitation product and Construction** with competencies elaborated in the respective OS. Graduates of the program will have the required qualification to work in the **Construction sector** in the field of **Basic Manufacturing Sanitation product and Construction.**

The prime objective of this training program is to equip the Trainees with the identified competences specified in the OS. Graduates are therefore expected to Apply Basic Water, Sanitation and Hygiene Practice, Read and interpret building drawing and specifications, Carryout Reinforced Concrete work, Develop Morality, Ethics and Patriotism and develop entrepreneurship in accordance with the performance criteria and evidence guide described in the OS.

Page 5 of 29	Author/Copyright:	Manufacturing Sanitation product	Curriculum Version - I
`	Ministry of Labor and Skills	and Construction	March 2023



1.3. Training Program Structure

Unit of competence		Sequences of Learning modules			Nominal Duration
Unit of co	mpetence	Code	Title / Module name	Unit title	(In Hours)
EIS WSSW1 02 0417	Apply Basic Water, Sanitation and Hygiene Practice	EIS WSSW1 M01 0523	Basic Water, Sanitation and Hygiene Practice	 Sanitation Protocol, Hygiene Procedures and Hazards Proper Utilization of Improved Latrine Proper Handling of Drinking Water at Household Level Proper Hand Washing and Personal Hygiene Practices 	4
EIS BBCW1 04 0322	Read and interpret building drawing and specifications	EIS BBCW1 M02 0523	Read and interpret working drawing and specifications	 Introduction to Free Hand Sketching and Views Architectural Symbols and Abbreviations Types of drawings and their purposes 	4
EIS SCW1 09 0322	Prepare and Mix Mortar, Cast, and Level Concrete Work	EIS SCW1 M04 0523	Carryout Reinforced Concrete work	 Safety in Construction Construction Tools, Equipment and Materials Erecting and dismantling formwork 	32

Page 6 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
	Ministry of Labor and Skins	and Construction	May 2023



				and scaffolding	
				Rebar and Bamboo reinforcement	
				Carryout reinforced concrete work	
	Develop Morality,		Morality, Ethics and	Basic concept of morality	
MIN CRP2 10 1222	Professional Ethics	MIN CRP2 M08 0323	Patriotism	Professional ethics	4
	and Patriotism		i autousiii	Development of patriotic personality	
	Developing			• Entrepreneurship	
ENT EMP 08 0821	Entrepreneurship	ENT EMP M09 0523	Develop business practice	 Identify business opportunity. 	4
LIVI LIVII 00 0021	and Employability	ENT ENT MO9 0323	Develop business practice		4
	skills			Develop business skill	

Page 7 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
	Ministry of Labor and Skins	and Construction	May 2023



1.4. Duration of the TVT-Program

The Program will have duration of **36 hours** including the in-school/ Institution training and on-the-job practice or cooperative training time. Such cooperative training based on realities of the industry, nature of the occupation, location of the TVT institution, and other factors will be considered in the training delivery to ensure that trainees acquire practical and workplace experience.

S.No	Module title	TVT Institution training		Cooperative training	Total hours	Remark
		Theory	Practical	uanning	Hours	
1.	Basic Water, Sanitation and Hygiene Practice	3	1	-	4	
2.	Read and interpret working drawing and specifications	2	2	-	4	
3.	Carryout Reinforced Concrete work	4	18	2	24	
4.	Morality, Ethics and Patriotism	2	-	-	2	
5.	Develop business practice	2	-	-	2	
Total hour		13	21	2	36	
Project work title					Maximum one week	

N.B. The cooperative training time can be managed for implementations according to the context of the training environments of the institution.

Page 8 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
	Willistry Of Labor and Skills	and Construction	May 2023



1.5. Qualification Level and Certification

Qualification is a formal certificate issued by an official agency in recognition to that an individual has been assessed as achieving learning outcomes or competencies to the standard specified for the qualification title. A qualification confers official recognition of value in the labour market and in further education and training. Based on the descriptors elaborated on the Ethiopian National TVT Qualification Framework (NTQF) the qualification of this specific TVT Program is Manufacturing Sanitation product and Construction Short term Certificate according to the Short term. The trainee will be awarded transcript and the institutional certificate after successfully completing all the modules in the level.

1.6. Target Groups

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

1.7. Entry Requirements

In principle everyone should be able to access training based on the labor market. Hence the prospective participants of this program are any citizen who possesses the entry requirement directive of the Ministry of Labor and Skills.

1.8. Mode of Delivery

This TVT-Program is characterized as a formal Program on middle level technical skills. The mode of training delivery is in the institution and co-operative training. Cooperative training is a model of training by the cooperation of enterprises/industries and TVT institutions whereby trainees spend much of their time in the enterprises/industries to acquire industrial knowledge, skills, experiences, and attitudes of the industrial environment and the remaining time in TVT institutions to acquire basic skills and theoretical concepts. Therefore, it is necessary to make the TVT sector more effective by strengthening a system of cooperative training accepted by the industry.

The program will employ different alternatives of cooperative training such as apprenticeships, internship and traineeship based on the nature of the occupation, location of the TVT institutions, and interest of the industry. In addition, in the areas where industry is not sufficiently available the established production and service centers/learning factories in

Page 9 of 29

Manufacturing Sanitation product



TVT institutions will be used as cooperative training places. The Training-Institution and identified companies should have to take an agreement to co-operate with regard to the implementation of this program.

1.9. Institutional Assessment

Two types of evaluation will be used in determining the extent to which training outcomes are achieved. The specific training 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 training modules and form part of the training process. Formative evaluation provides the trainee with feedback regarding success or failure in attaining training outcomes. It identifies the specific training errors that need to be corrected, and provides reinforcement for successful performance as well. For the teacher, formative evaluation provides information for making instruction and remedial work more effective.

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 of institutional Assessment implementation guidelines.

Techniques or tools for obtaining information about trainees' achievement include oral or written test, demonstration and on-site observation. Therefore, a trainee is required to earn at least 60% to be theoretically qualified. This result should be 18% or more when converted to 30%. Regarding performance appraisal results, it must score at least 80% or at least 32% or more when converted to 40%. Must cooperate at least 80% out of 100% in cooperative training; When converted to 30%, it must register 24%.

1.10. TVT Teachers Profile

Page 10 of 29

The trainers conducting this particular TVT Program are **B Level** and above who have satisfactory practical experiences or equivalent qualifications.



1.11. Training and Assessment methodology

The program is delivered using a variety of training methods. The table below shows training and assessment methodology for non-impaired trainees and with reasonable adjustment for impaired trainees. In addition, as per the nature of the module title the trainer can use recommended and possible training and assessment methodology.

		Learning Methods:		
For nonimpaired		Reasonable Adjustment for Trainees w	rith Disability (TWD)	
trainees	Low Vision Blind	Deaf	Hard of hearing	Physical impairment
Lecture-	 Provide large print text. 	 Assign sign language interpreter. 	❖ Organize the classroom	 Organize the classroom
discussion	Prepare the lecture in Audio/video.	Arrange the classroom seating to be	seating arrangement to	seating arrangement to be
	 Organize the classroom seating 	conducive for eye-to-eye contact.	be accessible to trainees.	accessible for wheelchairs
	arrangement to be accessible to	 Make sure the luminosity of the 	Speak loudly.	users.
	trainees.	light of classroom is kept.	 Ensure the attention of 	 Facilitate and support the
	❖ Write short notes on the black/white	 Introduce new and relevant 	the trainees.	trainees who have severe
	board using large text.	vocabularies.	 Present the lecture in 	impairments on their upper
	 Make sure the luminosity of the 	 Use short and clear sentences. 	video format.	limbs to take note.
	light of classroom is kept.	 Give emphasis on visual lecture 	 Ensure the attention of 	 Provide Orientation on the
	Use normal tone of voice.	and ensure the attention of the	the trainees.	physical feature of the
	 Encourage trainees to record the 	trainees.		workshop.
	lecture in audio format.	 Avoid movement during lecture 		
	 Provide Orientation on the physical 	time.		
	feature of the workshop.	Present the lecture in video format.		
	 Summarize main points 	 Summarize main points 		
Demonstration	Conduct close follow up.	 use Sign language interpreter. 	 Illustrate in clear & 	❖ Facilitate and support the
	 Use verbal description. 	 Use video recorded material. 	short method.	trainees having severe upper
	 Provide special attention in the 	 Ensure attention of the trainees 	 Use Video recorded 	limbs impairment to operate
	process of guidance.	 Provide structured training. 	material.	equipment's/ machines.
	 facilitate the support of peer 	Show clear and short method.	 Ensure the attention of 	 Assign peer trainees to assist.
	trainees.	 Use gesture. 	the trainees.	 Conduct close follow up.
	 Prepare & use simulation 	provide tutorial support. (If	provide tutorial support.	provide tutorial support.

Page 11 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
	Willistry of Labor and Skins	and Construction	May 2023



		necessary)	(If necessary)	(If necessary
Group discussion	 Facilitate the integration of trainees with group members. Conduct close follow up. Introduce the trainees with another group member. Brief the thematic issues of the work 	 Use sign language interpreters. Facilitate the integration of trainees with group members. Conduct close follow up. Introduce the trainees with another group member. 	 Facilitate the integration of trainees with group members. Conduct close follow up Introduce the trainees with another group member. Inform the group members to speak loudly 	Introduce the trainees with their peers
Exercise	 Conduct close follow up and guidance. Provide tutorial support if necessary. provide special attention in the process. 	 Conduct close follow up and guidance. Provide tutorial support if necessary. provide special attention in the process/practical training. Introduce new and relevant vocabularies 	 Conduct close follow up and guidance. Provide tutorial support if necessary. provide special attention in the process/ practical training 	 Assign peer trainees. Use additional nominal hours if necessary
Individual assignment	 prepare the assignment questions in large text. Encourage the trainees to prepare and submit the assignment in large texts. Make available recorded assignment questions Facilitate the trainees to prepare and submit the assignment in soft or hard copy 	 Use sign language interpreter. Provide briefing /orientation on the assignment. Provide visual recorded material. 	 Provide briefing /orientation on the assignment. Provide visual recorded material. 	

Page 12 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
	Ministry of Labor and Skins	and Construction	May 2023



Interview		 Use sign language interpreter. Ensure or conform whether the proper communication was conducted with the trainee through the service of the sign language interpreter. Use short and clear questioning. Time extension 	 Speak loudly. Using sign language interpreter if necessary 	Use written response as an option for the trainees having speech challenges
Written test	 Prepare the exam in large texts. Use interview as an option if necessary. Prepare the exam in audio format. Assign human reader. (If necessary) Time extension 	 Prepare the exam using short sentences, multiple choices, True or False, matching, and short answers. Avoid essay writing. Time extension 	❖ Prepare the exam using short sentences, multiple choices, true or false, matching, and short answers if necessary.	 Use oral response as an option to give answer for trainees having severe upper limb impairment. Time extension for trainees having severe upper limb impairment
Demonstration/O bservation	 Brief the instruction or provide them in large text Time extension 	 Use sign language interpreter. Brief on the instruction of the exam Provide activity-based/ practical assessment method. Time extension 	 Provide activity-based assessment. Brief on the instruction of the exam Use loud voice. Time extension 	 Provide activity-based assessment. Conduct close follow up. Time extension

Page 13 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
	Ministry of Labor and Skins	and Construction	May 2023



2. Learning Module Design

Module Code and Title	EIS WSSW1 M01 0523: Basic Water, Sanitation and Hygiene Practice
Nominal Duration :	4 Hrs.

Module Description: This module covers knowledge, skills and attitude required to apply basic sanitation and hygiene practice to prevent spreading diseases in according to specified standards and parameters.

Training Outcomes

At the end of the module the trainee will be able to attain the following training objectives:

- Follow sanitation protocol, hygiene procedures and identify hazards.
- Demonstrate proper utilization of improved latrine.
- Apply proper handling of drinking Water at household level.
- Apply Proper hand washing and personal hygiene practices

Module Contents:

Unit One: Sanitation Protocol, Hygiene Procedures and Hazards

- 1.1. Water, Sanitation and Hygiene Policies
- 1.2. Water, Sanitation and Hygiene Hazards
- 1.3. Market Based Sanitation
 - 1.3.1. Concept of Market Based Sanitation
 - 1.3.2. Sanitation Ladder
 - 1.3.3. Technology Options

Unit Two: Proper Utilization of Improved Latrine

- 2.1. Key Components and Importance of an Improved Latrine
- 2.2. Proper Use and Maintenance Techniques

Unit Three: Proper Handling of Drinking Water at Household Level

- 3.1. Drinking Water Quality Standards
- 3.2. Drinking Water Quality Hazards
- 3.3. Water treatment and proper storage at house hold level

Unit Four: Proper Hand Washing and Basic Personal Hygiene Practices

- 4.1. Importance of Basic Personal Hygiene
- 4.2. Steps for Proper Hand Washing Technique
- 4.3. Products for Proper Basic Hygiene and Sanitation Practice

Page 14 of 29	Author/Copyright:	Manufacturing Sanitation product	Curriculum Version - I
	Ministry of Labor and Skills	and Construction	March 2023



Learning Methods:

- Lecture
- Demonstration
- Group discussion
- Assignment

Assessment Methods:

- Written test
- Oral questioning
- Observation
- Demonstration

Assessment Criteria:

Unit One: Sanitation Protocol, Hygiene Procedures and Hazards

- Apply water, sanitation and hygiene policies.
- Identify water, sanitation, and hygiene hazards.
- Describe market-based sanitation.
 - Explain concept of market-based sanitation.
 - Describe sanitation ladder.
 - Apply technology options.

Unit Two: Proper Utilization of Improved Latrine

- Key Components and Importance of an Improved Latrine
- Demonstrate Proper Use and Maintenance Techniques

Unit Three: Proper hand washing and basic personal hygiene practices

- Identify importance of basic personal hygiene
- Demonstrate proper hand washing technique
- Demonstrate Water treatment and proper storage at house hold level

Manufacturing Sanitation product

and Construction



Module Code and Title	EIS BBCW1 M02 0523: Read and interpret building drawing and
	specifications.
Nominal Duration :	4 Hrs.

Module Description: This module specifies the outcomes required to read and interpret plans and specifications in order to perform the work as per the drawings.

Training Outcomes

At the end of the module the trainee will be able to attain the following training objectives:

- Understand Free hand sketching and views
- Identify architectural symbols and abbreviations.
- Explain types of drawings and their purposes.

Module Contents:

Unit One: Introduction to Free Hand Sketching and Views

- 1.1. Free hand sketching
- 1.2. Orthographic view /2D
- 1.3. Isometric perspective/3D

Unit Two: Architectural Symbols and Abbreviations

- 2.1. Drawing symbols and abbreviations
- 2.2. Sanitary symbols
- 2.3. Electrical symbols

Unit Three: Types of Working Drawings and Their Purposes

- 3.1. Architectural drawing
- 3.2. Structural drawing
- 3.3. Sanitary drawing
- 3.4. Electrical drawing
- 3.5. Detail drawing

Learning Methods:

- Lecture
- Demonstration
- Group discussion
- Assignment
- Focus group

Page 16 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
	Ministry of Labor and Skins	and Construction	May 2023



Assessment Methods:

- Written test
- Oral questioning
- Presentation
- Observation
- Demonstration

Assessment Criteria:

Unit One: Introduction to free hand sketching and views

- Identify free hand sketching.
- Explain orthographic view /2D.
- Explain isometric perspective/3D.

Unit Two: Architectural symbols and abbreviations

- Identify Drawing symbols and abbreviations.
- Identify Sanitary symbols.
- Identify Electrical symbols.

Unit Three: Types of drawings and their purposes

- Explain architectural drawing.
- Explain structural drawing.
- Explain sanitary drawing.
- Explain electrical drawing.
- Read and explain detail drawing.

Manufacturing Sanitation product

and Construction



Module Code and Title	EIS SCW1 M04 0523: Carryout Reinforced Concrete work
Nominal Duration :	32 Hrs.

Module Description: The module aims to provide the learners with the required knowledge, skill and attitude to identify Health and Safety, select tools, equipment and materials, Erect and dismantle formwork and scaffolding, install reinforcement and bamboo, carryout reinforcement concrete work. Furthermore, it contains the different materials for the preparation of the reinforced concrete work.

Training Outcomes

At the end of the module the trainee will be able to attain the following training objectives:

- Identify safety in Construction.
- Select Construction Tools, Equipment and Materials
- Erect and dismantle formwork and scaffolding.
- Prepare Rebar and bamboo reinforcement.
- Carryout reinforcement concrete work

Module Contents:

Unit One: Safety in Construction

- 1.1. Construction Health and Safety legislative requirements
- 1.2. Construction hazards and control measures
- 1.3. Construction Health and Safety incident.

Unit Two: Construction Tools, Equipment and Materials

- 3.6. Uses of construction tools and equipment.
- 3.7. Basic construction raw materials

Unit Three: Erecting and dismantling formwork and scaffolding

- 3.1. Concept of formwork and scaffolding
- 3.2. Erecting formwork and scaffolding
- 3.3. Dismantling formwork and scaffolding

Unit Four: Rebar and Bamboo reinforcement

- 4.1. Cutting, bending, and fixing reinforcement
- 4.2. Cutting and fixing bamboo
- 4.3. Installing different plastic technology
 - 4.3.1. SATO Products
 - 4.3.2. AIM

Page 18 of 29	Author/Copyright:	Manufacturing Sanitation product	Curriculum Version - I
	Ministry of Labor and Skills	and Construction	May 2023



Unit Five: Carryout reinforced concrete work

- 5.1. Mix ratio and batching.
- 5.2. Mix concrete ingredients
- 5.3. Transportation and placing
- 5.4. Compaction and Curing
- 5.5. Concrete material and rebar estimation
- 5.6. Labor and cost calculation

Learning Methods:

- Lecture
- Demonstration
- Group discussion
- Assignment

Assessment Methods:

- Written test
- Oral questioning
- Observation
- Demonstration

Assessment Criteria:

Unit One: Safely in Construction

- Identify construction health and safety legislative requirements.
- Identify construction hazards and control measures.
- Describe construction health and safety incident.

Unit Two: Construction Tools, Equipment and Materials

- Explain use of construction tools and equipment.
- List basic construction raw materials

Unit Three: Erect and dismantle formwork and scaffolding.

- Explain concept of formwork and scaffolding
- Erect formwork and scaffolding
- Dismantle scaffolding

Unit Four: Reinforcement and bamboo

• Carryout cut, bend and fix reinforcement.

Page 19 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
	Willistry of Labor and Skins	and Construction	May 2023



- Carryout cut and fix bamboo.
- Install different plastic technology.

Unit Five: Carryout reinforcement concrete work

- Identify mix ratio and batching.
- Perform mix concrete ingredients.
- Describe transportation and placing.
- Explain compaction and curing.
- Determine concrete material and rebar estimation.
- Determine labor and cost calculation



Module Code and Title:	MIN CRP2 M10 0523: Morality, Ethics and Patriotism
` Nominal Duration :	4 Hrs.

Module Description: This modules covers the knowledge, skills and attitude required to develop the concept and principles of morality, professional ethics and patriotism

Training Outcomes

At the end of the module the trainee will be able to attain the following training objectives:

- Define basic concept of morality.
- Apply professional ethics.
- Develop the practice of patriotic personality

Module contents:

Unit One: Basic concept of morality

- 1.1. Concept of morality
- 1.2. Principles of moral
- 1.3. Relationship of moral and ethics

Unit Two: professional ethics

- 2.1. Ethics and professional ethics
- 2.2. Mechanisms of ethical decision

Unite Three: Development of patriotic personality.

- 3.1. Basic concept of patriotism
- 3.2. Patriotic citizen
- 3.3. Executing responsibility



Learning Methods:

- Lecture
- Group discussion
- Question and answer
- Brainstorming

Assessment Methods:

- Written test
- Oral questioning
- Presentation
- Interview
- Assignment

Assessment Criteria:

Unit One: Basic concept of morality

- Define concept of morality
- List principle of moral
- Explain relationship of moral and ethics

Unit Two: basic concept of ethics professionalism

- Explain ethics and professional ethics.
- Describe evaluation and reflection of ethics.
- List mechanisms of ethical decision

Unite Three: practical development of patriotic personality.

- Explain basic concept of patriotism.
- Explain patriotic citizen.
- Execute responsibility



Module Code and Title	ENT EMP M09 0523: Develop business practice
Nominal Duration:	4 Hrs.

Module Description: This module covers knowledge, skills and attitude required to understand the concepts, principles, functions, strategies, and methods to develop business. It also covers identifying and developing the basic business practice.

Training Outcomes

At the end of the module the trainee will be able to attain the following training objectives:

- Understand Entrepreneurship
- Identify business opportunity.
- Develop business skill

Module Contents:

Unit 1. Entrepreneurship

- Concept of Entrepreneurship
- Characteristics of Successful Entrepreneurs

Unit 2. Identifying business opportunity

- Understanding Business opportunities
- Identifying and Assessing Business Opportunities

Unit Three: Developing business skill

- Basic Marketing Skills
- Basic Financial Literacy
- Managing and Leading a Sanitation Enterprise

Learning Methods:

- Lecture
- Demonstration
- Group discussion
- Assignment



Assessment Methods:

- Written test
- Oral questioning
- Observation
- Demonstration

Assessment Criteria:

Unit One. Entrepreneurship

- Understand Business opportunities
- **Identify and Assess Business Opportunities**

Unit Two: Identifying business opportunity

- Understand Business opportunities
- Identify and Assess Business Opportunities

Unit Three: Developing business skill

- **Understand Basic Marketing Skills**
- **Understand Basic Financial Literacy**
- Manage Lead a Sanitation Enterprise

May 2023



Resource Requirements

Item No.	Category/Item	Description/ Specifications	Quantity	Recommended Ratio (Item: Trainee)
A.	Learning Materials			
1.	TTLM	Trainers Group	25	1:1
		Technical Specification and Method		
2.	BATCODE	of Measurement General	5	1:5
		Requirements [Book].		
		Bill of Quantity Preparation.	5	1:5
		Cost Estimation and Unit Rate	_	1.5
		Analysis for Building [Book] 2010.	5	1:5
3.	D 1	Formula General Formula College		
	Book	from EBCS [Book].		
		Project Health Center Construction		
		Quality Management Manual For 747		
		[Book].		
		Health Federal Democratic Republic		
	Onsite Household Latrine	of Ethiopia Ministry of Onsite		
	Technology Option	Household Latrine Technology Option		
	Planning and Construction	Planning and Construction Manual		
	Manual	[Book] Addis Ababa Ethiopia:		
		МоН, 2017.		
	Sirai Nacir	Quantity Surveying [Book]		
	Siraj Nasir	Haramaya: University, 2007.		
В.	Learning Facilities & Infrastructure			
1.	Lecture Room	5*5m	1	1:25
2.	Library	20*30m	1	1:250
3.	Cooperative lab	7*9m	2	1:25
<i>C</i> . 1.	Consumable Materials Paper	A4	5rim	1:5
2	Pen	Ball Point	5	1:5

Page 25 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
	Willistry of Labor and Skills	and Construction	May 2023



3	Marker	Packet	25	1:1	
4	Duster	Packet	5	1:5	
5	Pencil	Pcs	25	1:1	
6	Glove	Pcs	25	1:1	
7	Eye Goggle	Pcs	25	1:1	
8	Helmet	Pcs	25	1:1	
9	Safety Shoes and Clothes	Pcs	25	1:1	
10	Mask Or Barrier	Pcs	1	1:25	
11	Resuscitation Mask	Pcs	25	1:1	
12	Buckets	Pcs	1	1:25	
13	Clay	Kilogram	25	1:1	
14	Soap	Littre	10	1:2.5	
15	Brickwork	6*12*25cm	25pces	1:5	
16	Cement	Kg	As Required	1:5	
17	Glass	M^2	As Required	1:5	
18	Tiles	M^2	As Required	1:5	
19	Timber	2.5 * 20 * 400cm	As Required	1:5	
20	Metal	Steel	As Required	1:5	
21	Plastic Packet	Pcs	5	1:5	
22	Sand	M ³	As Required	1:5	
23	Aggregate	M ³	As Required	d 1:5	
D.	Tools and Equipment's				
1	White Board	240 Cm *120 Cm	1 Pcs	1:25	
2	Computer	Desk Top Computer	5	1:5	
3	Printer	Conca	5	1:5	
4	Computer Table	Wood Table	5	1:5	
5	Shelf	File Cabinet Wood/Steel type	5	1:5	
6	Lcd Projector	Epson	1	1:25	
7	Dumpers	Pcs	1	1:25	
8	Stirring Paddle	Pcs	1	1:25	
9	Weighting Balance	Pcs	1	1:25	
10	Jar Mill	Pcs	1	1:25	
11	Pans	Pcs	1	1:25	
12	Filter Press	Pcs	1	1:25	
13	Pug Mill	Pcs	1	1:25	

Page 26 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
	Willistry of Labor and Skills	and Construction	May 2023



14	Sieve	Pcs	10	1:2.5
15	Sticker	Pcs	10	1:2.5
16	Signboard	Pcs	10	1:2.5
17	Nails	Kilogram	5	1:5
18	Shelves	Pcs	5	1:5
19	Chip Wood	Pcs	5	1:5
20	Shadow Board/Tools Board	Pcs	5	1:5
21	Shovels	Steel	5	1:5
22	Crow Bars	Steel	5	1:5
23	Hammers	Sledgehammer	25	1:1
24	Wheelbarrows.	Capacity 85 Kg	5	1:5



3. Participants of This Module (Training Material) Preparation

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Page 28 of 29	Author/Copyright:	Manufacturing Sanitation product	Curriculum Version - I
	Ministry of Labor and Skills	and Construction	March 2023



Page 29 of 29	Author/Copyright: Ministry of Labor and Skills	Manufacturing Sanitation product	Curriculum Version - I
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