

THE REPUBLIC OF UGANDA Ministry of Education and Sports

Business, Technical, Vocational Education and Training [BTVET] Sub sector Reform



Assessment and Training Package FOR

TERRAZZO WORKER

Qualification Level: 1

Occupational Cluster: Technology and Design

January 2022

Developed by:

Funded by:

Qualifications Standards Department Directorate Of Industrial Training

Government of Uganda

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Under BTVET Act, 2008, the functions of the Directorate of Industrial Training are:

- (a) To identify the needs of the labour market for occupational competencies that falls under the UVQF.
- (b) To regulate apprenticeship schemes.
- (c) To foster and promote entrepreneurial values and skills, as an integral part of the UVQF.
- (d) To secure adequate and sustainable financing for the efficient operations of the Directorate.
- (e) To accredit training institutions or companies as assessment centres.
- (f) To determine fees payable under the Act.
- (g) To develop, apply, expand and improve the purposeful application of Uganda vocational qualifications defined in the UVQF.
- (h) To assess and award Uganda Vocational Qualifications.
- (i) To promote on-the-job training in industry for apprenticeship, traineeship and indenture training and for other training such as further skills training and upgrading.

To prescribe the procedure for the making of training schemes. Further to the above provisions, there is an established Uganda Vocational

Qualifications Framework (UVQF), under part V of the BTVET Act, 2008. It is stated that: The purpose of the UVQF is to;

- (a) Define occupational standards in the world of work.
- (b) Define assessment standards.
- (c) Award vocational qualifications of learners who meet the set standards of different studies.
- (d) Provide guidelines for modular training.

The UVQF shall follow principles of Competence Based Education and Training (CBET) which include:

- (a) Flexible training or learning modules.
- (b) Positive assessment and Certification.
- (c) Assessment of Prior Learning.
- (d) Recognition of formal and non-formal training.
- (e) Self-paced or individual learning.
- (f) Work place learning.

For award and recognition of certificates, the BTVET Act, 2008 provides that:

- The Directorate and other examination boards established under the Act shall award certificates and diplomas for Business, Technical or Vocational Education and Training under the UVQF.
- 2. The Certificates and Diplomas to be awarded shall be in the form prescribed by the Minister on the recommendation of the Industrial Training Council.
- 3. The Certificates and Diplomas awarded under the Act shall be recognized in the Uganda education system and by the labour market.

Under the TVET Implementation Standards 2020, the proposed new mandate of the Directorate of Industrial Training shall be restricted to promoting the highest standards in the quality and efficiency of industrial training in the country and ensuring an adequate supply of properly trained manpower at all levels in the industry and the world of work.

The functions shall include:

- (a) Regulating Industrial Training and Trainers.
- (b) Developing Industrial Training Curricula.
- (c) Harmonizing Curricula and Certificates of competence.
- (d) Assessing Industrial Training.
- (e) Development of Occupational Standards and Assessment and Training Packages (ATPs) for Trade Testing for the industry and world of work.
- (f) Awarding certificates in that respect.

At operational level in the Directorate, the Qualification Standards Department performs development tasks related to concepts, procedures and instruments for establishment of the UVQF in close collaboration with both public and private stakeholders in vocational training.

In particular, the Department organizes and coordinates the development of Assessment and Training Packages for use in competence-based vocational training as well as standards-based assessment and certification.

The Directorate has therefore produced this Assessment and Training Package for use in implementing Competence-Based Education and Training mechanisms.

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Word from Permanent Secretary

The Ministry of Education and Sports (MoES) through the Directorate of Industrial Training conducts Competence Based Assessment.

The foreseen advantages of CBA include improved access, equity and relevance of skills development, reduced unit costs of training, and recognition of Prior Learning (or on-the-job-training), among others.

As the Ministry executes its obligation of ensuring quality in training standards, the public-private partnership is being strengthened to improve occupational competence of the country's workforce without gender bias.

To achieve the set-out targets, the Directorate embarked on the anticipated UVQF design and development piloting its instruments and mechanisms in order to effectively enhance Competence-Based Assessment (CBA) in Uganda.

To date, the Qualifications Standards Department of DIT has produced Assessment and Training Packages (ATP) for various occupations. Each ATP contains 3 parts namely:

- 1.Occupational/job Profile
- 2. Training modules and
- 3. Assessment instruments Banks

The ATP can be used by any training provider and/or those who wish to present themselves for Occupational Assessment and Certification.

Herewith, the Directorate of Industrial Training presents the "Assessment & Training Package (ATP)" for training, assessment and certification of **TERRAZZO WORKER – QUALIFICATION LEVEL 1**.

Finally, I thank all individuals, organizations and development partners who have contributed and/or participated in the review of this noble document.

Ketty Lamaro Permanent Secretary

Executive Summary

This Assessment and Training Package is a Competence-Based Education and Training (CBET) tool and consists of three major parts

PART I: The "Occupational Profile" (OP) of Terrazzo worker. This Occupational Profile, which was developed by terrazzo workers practicing in the world of work mirrors the duties, and tasks terrazzo workers are expected to perform.

- **0.1. PART II:** "**Training Modules**" in the form of guidelines to train **terrazzo workers** both on the job as well as in training centers (or combinations of both venues of learning). The Training Modules herein have been developed basing on the Occupational Profile and hence are directly relevant for employment.
- 0.2. PART III: "Assessment Instruments" in the form of performance (Practical) and written (theory) test items that can and should be used to assess whether a person complies with the requirements of employment as a Terrazzo worker. These assessment-based instruments were developed by Job practitioners (Terrazzo workers) based on the occupational profile and training modules.
- 0.3. While the Occupational Profile (OP) contained in PART I of this document provides the information on <u>WHAT a person is expected to do</u> competently in the world of work, the test items, including performance criteria- of PART III qualify the <u>HOW</u> and/or HOW WELL a person must do the job.
- 0.4. The modular format of the curriculum (PART II) allows learners to acquire job specific skills and knowledge (i.e., competencies) module by module. A single module can be accomplished within a relatively short duration of time allowing flexibility for learners to move directly into an entry level job, go for further modules or advance to higher levels of training. Modular courses allow more learners to access the training system because training centers as well as companies can accommodate more students in a given period of time.
- 0.5. In addition to improved access, equity and relevance of BTVET, the UVQF will also enable people who are convinced to have acquired competencies laid down in this ATP through prior training and on-the-job experience to access assessment and certification directly; be it on the basis of a single module, a group of modules or all modules pertaining to the occupation at once. This achievement will facilitate Recognition of Prior Learning (RPL).

UVQF: Assessment and Training Package (ATP) for TERRAZZO WORKER QUALIFICATION LEVEL 1 January 2022

The parts of this Assessment and Training Package were sequentially developed as follows:

- i Part 1: Occupational Profile: *January 2022*ii Part 2: Training Modules: *January 2022*
- iii Part 3: Assessment Instruments: January 2022

This ATP (or parts of it) may be periodically revised to match the dynamic trends in the occupation and hence issued in different versions.

Patrick Byakatonda Ag. Director DIT

Acknowledgement

The Qualifications Standards Department of DIT wishes to sincerely acknowledge the valuable contributions to the development of this Assessment and Training Package by the following persons, Institutions and organizations:

- Members of the DIT Industrial Training Council;
- The Director and staff of DIT;
- Ministry of Education and Sports;
- The practitioners from the world of work;
- Art and Design Curriculum Specialists from NCDC
- Examination Specialists from UNEB
- The facilitators involved in guiding the review panel in their activities
- The Government of Uganda for financing the review of this ATP

Abbreviations and Acronyms

A&C Assessment & Certification

ATP Assessment & Training Packages

BTVET Business, Technical and Vocational Education and Training

CBA Competence Based Assessment

CBET Competency Based Education and Training

DACUM Develop a Curriculum

DIT Directorate of Industrial Training

ITC Industrial Training Council
GoU Government of Uganda

LWA Learning-working Assignment

MC Modular Curriculum

MoES Ministry of Education and Sports

OP Occupational Profile
PEX Practical Exercise

PTI Performance (Practical) Test Item

QS Qualification Standards

RPL Recognition of Prior Learning

TIB Test Item Bank

TVET Technical and Vocational Education and Training

UVQ Uganda Vocational Qualification

UVQF Uganda Vocational Qualifications Framework

WTI Written (Theory) Test Item

Key Definitions

Assessment	Assessment	is t	he	means	by	which	evidence	is	gathered	and
------------	------------	------	----	-------	----	-------	----------	----	----------	-----

judged to decide if an individual has met the stipulated assessment standards or not. Testing is a form of formal

assessment.

Certification Certification is a formal procedure to issue a certificate

> (qualification) to an individual that has demonstrated during formal assessment that he/she is competent to perform the tasks

specified in the occupational profile.

Competence Integration of skills, knowledge, attitudes, attributes and expertise

in doing/ performing tasks in the world of work to a set standard.

Competency (Occupational) competency is understood as the ability to perform

tasks common to an occupation to a set standard.

CBET Competence-based education and training means that

programmes:

1. have content directly related to work

2. focus is on 'doing something well'

3. assessment is based upon industry work standards, and

4. curricula are developed in modular form

Duty A Duty describes a large area of work in performance terms. A duty serves as a title for a cluster of related Tasks (see also:

TASK).

Assignment

(LWA)

Learning-Working LWA are simulated or real job situations / assignments that are suitable for learning in a training environment (e.g. "small projects"). In a working environment LWA are real work

situations/assignments.

Modules Modules are part(s) of a whole curriculum. Modules can be

> considered as "self-contained" partial qualifications which are described by learning outcomes or competencies and which can

be assessed and certified individually.

Occupational Profile (OP)

An Occupational Profile is an overview of the duties and tasks a job incumbent is expected to perform competently in employment.

Occupational Profiles developed by practitioners from the world

ofwork enhance the relevance of training and learning to the

requirements of the world of work.

VIII

UVQF: Assessment and Training Package (ATP) for TERRAZZO WORKER QUALIFICATION LEVEL 1 January 2022

Occupational Profiles define WHAT a person is supposed to do in performance terms. It also contains generic information regarding related knowledge and skills, attitudes/behaviour, tools, materials and equipment required to perform as well as trends/ concerns in the occupation.

Occupational profiles are the reference points for developing modular curricular and assessment standards

Qualification

A qualification is a formal reward for demonstrating competence, based on formal assessment against set standards and provided to the individual in the form of a certificate specifying the nature of the competence.

Task

Job TASKS represent the smallest unit of job activities with a meaningful outcome. Tasks result in a product, service, or decision. They represent an assignable unit of work and have a definite beginning and ending point. Tasks can be observed and measured. (see also: Duty)

ATP-PART I Occupational Profile for Terrazo Worker

- 1.1 The OCCUPATIONAL PROFILE (OP) for "Terrazzo worker" below defines the **Duties** and **Tasks** a competent **Terrazzo worker** is expected to perform in the world of work (on the job) in Uganda and the East African region today.
- 1.2 Since it reflects the skill requirements of work life, the Occupational Profile is the reference document for the subsequent development of training modules and assessment instruments (test items) which are directly relevant to employment in Ugandan and the East African businesses and industries.
- 1.3 To ensure that the Occupational Profile is relevant for employment in Uganda and East Africa, the DIT used the method of "occupational/job profiling.
 - This approach involves the brainstorming of a panel of 8 to 12 competent job practitioners guided by trained and experienced facilitators. During a two-day workshop the panellists define the duties and tasks performed in employment, as well as the prerequisite skills, knowledge, attitudes, tools and equipment, and the future trends and concerns in the occupation/job.
- 1.4 The panellists, facilitators and coordinators who participated in developing this Occupational Profile for **Terrazzo workers** are listed on the following page.

'The DACUM-method was used. DACUM is an acronym for 'Develop A Curriculum'

Expert Panel

Nabikindu Caroline

MoES

Funa Simon

NCDC

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UNEB

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Funded by



THE REPUBLIC OF UGANDA Ministry of Education and Sports

Business, Technical, Vocational Education and Training (BTVET) Sub sector Reform

Occupational Profile

For

"TERRAZZO WORKER"

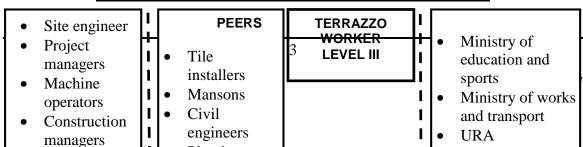
Developed by: Directorate of Industrial Training (Qualifications Standards)

Dates of workshop: 10th January - 14th January 2022

NOMENCLATURE -TERRAZZO WORKER

Definition:Terrazzo worker is a person who has knowledge and skills in designing, installing and maintaining different Terrazzo patterns

JOB ORGANISATION CHART FOR TERRAZZO WORKER





Internal Links

Technical Links External Links

- 1. **UVQ Level I Terrazzo Worker**; Is aperson who has knowledge and skills in mixing ingredients, preparing floor, installing and maintaining simple floor designs
- 2. **UVQ Level II Terrazo Worker**; A person who has knowledge and skills in designing patterns, interpretation of work plans, preparation of simple BOQ/BOM, preparation of materials, installation and maintainence of terrazzo floor designs.
- 3. **UVQ Level III Terrazo Worker**is a person who has knowledge and skills in training and directing, survey site, making and interpretation of workplans, preparation of BOQ/ BOM, installation and maintainence of terrazzo floor designs.

Duties and Tasks

A. Plan Terrazzo	A1 Visit site	A2 Study surface	A3 Take
work		nature	measurements

UVQF: Assessment and Training Package (ATP) for TERRAZZO WORKER QUALIFICATION LEVEL 1 J

	it and Training Package	(ATP) for TERRAZZO W	
QUALIFICATION LEVEL 1			January 2022
	A4 Estimate	A5 Identify tools,	A6 Prepare
	quantities,	equipments	BOQ/BOM
	costs and time	and materials	
	scale		
	A7 Prepare work	A8 Prepare work	A9 Determine
	schedule	schedule	mixing ratios
		L	L

B. Perform Administrative Tasks	B1 Procure equipment and materials	B2 Sign MOU	B3 Recruit workers
	B4 Orient Workers	B5 Hold Meeting	B6 Train Workers
	B7 Assign Work	B8 Keep site records	B9 Prepare weekly Reports
	B10 Mentor workers	B11 Monitor Workers	B12 Appraise Workers
	B13 Manage conflicts	B14 Manage welfare	

C. Prepare Surface	C1 Clean surface	C2 Check cracks	C3 Check floor moisture
	C4 Level surface floor	C5 Design terrazzo layout	C6 Form bays

D. Install Terrazo	D1 Grade terrazzo	D2 Batch	D3 Mix Terrazzo
	aggregates	Terrazzo	materials
		materials	

UVQF: Assessment and Training Package (ATP) for TERRAZZO WORKER QUALIFICATION LEVEL 1

QUALIFICATION LEVEL 1			January 2022
	D4 Lay Terrazzo	D5 Level	D6 Cure terrazzo
	mixture	Terrazzo	surface
		mixture	
E. Perform	E1 Level	E2 Grind	E3 Grout terrazzo
Finishing	terrazzo	terrazzo	surface
i iiiisiiiig	101101		Suriace
	surface	surface	
	E4 Clean	E5 Polish	E6 Operate
	terrazzo	terrazzo	machines
	surface	surface	
F. Maintain tools,	F1 Collectequipmer	nt F2 Count tools	F3 Clean tools
equipment and	and tools.	and	and equipment
materials		equipment	
	F4 Lubricate	F5. Monitor	F6 Store tools
	equipment and	usage of	and
	machines	tools and	equipment
		equipment	
	E7 Popair tools and		
	F7 Repair tools and	¹	

equipment

G. Occupational	G1 Wear	G2 Administer	G3Manage waste
health, safety	protective	first aid	
and	gears		

UVQF: Assessment and Training Package (ATP) for TERRAZZO WORKER QUALIFICATION LEVEL 1

QUALIFICATION LEVEL 1	in and manning racha	90 (/ /	January 2022
environmental protection practices	G4 Display safety signs	G5 Sensitize workers on key health issues	G6 Report defects
	G7 Train workers on the usage of power and hand machines		

Additional Information

UVQF: Assessment and Training Package (ATP) for TERRAZZO WORKER

QUALIFICATION LEVEL 1 January 2022

Generic Knowledge & Skills

1. Counselling

2. ICT

Sales skills

4. Communication skills

5. Interpersonal skills

6. Regulations

7. Literacy and numeracy

8. Language

9. Business management

10. Industry trends

11. Market demands

12. Environmental awareness

13. Tools, equipment and materials

14. Pricing

15. Commercialization

16. General construction knowledge

17. Different patterns of Terrazzo

18. Safety and health

19. Knowledge on first aid

20. Contract law

21. Entrepreneurial skills

22. Different types of terrazzo colour

23. Knowledge on quality of Terrazzo

24. Decorating and finishing

techniques

25. Human resource management

26. Storage of material and equipment

27. Planning skills

28. Handling of tools and equipment

Tools, Equipment and materials

Stationery Mixer
Grinder Computer
Chissels Tape Measure
Hummers Water tank
Spade Squares
Wheel barrow Water levels
Hoe Terrazzo

Bow blades Brush wate

Cement

Sand

axel blades
Spirit level
Angle grinder
Dividers/strips

Timber

Cutting Machines

Nails

Attitudes/Traits/Behaviour	Future Trends and Concerns
Honest and transparent	 Expansion of market

UVQF: Assessment and Training Package (ATP) for TERRAZZO WORKER QUALIFICATION LEVEL 1 J

QUALIFICATION LEVEL 1	January 2022
2. Tolerant	Use of computers
3. Active	Advanced technology i.e. internet,
4. Hard working	websites, etc.
5. Punctual	Use of improved machines
6. Realistic	Need for training
7. Social	Environmental degradation
8. Able to predict	7. Lack of capital
9. Organized	8. Taxes
10. Respectful	
11. Confident	
12. Trustworthy	
13. Dedicated	
14. Team player	
15. Disciplined	
16. Enthusiastic	
17. Adaptive	
18. Creative and innovative	
19. Resourceful	
20. A good listener	
21. Result oriented	
22. Trainable	
23. Strategic	
24. Researcher	

2.0 ATP - PART II

Training Modules for A TERRAZZO WORKER:

- 2.1 A curriculum is a "guide /plan for teaching and learning" which provides a guide to teachers, instructors and learners. In the envisaged system of competence-based or outcome-oriented education and training (CBET), Curricula are no longer the benchmark against which assessment is conducted. It is rather the Occupational Profile that provides the benchmark for Curriculum development as well as assessment.
- 2.2 This modular format of the curriculum allows learners of a Terrazzo Worker to acquire job specific skills and knowledge (i.e. competencies) module by module. A single module can be accomplished within a relatively short duration of time allowing learners to move directly into an entry level job, do further modules and advance to higher levels of training. Modular courses allow more learners to access the training system because training centres, as well as companies can accommodate more studentsin a given period of time.
- 2.3 The modules were reviewed jointly by both instructors and job practitioners. They were reviewed using the Occupational Profile as a reference point and taking into account the specifications of training and learning outcomes.
- 2.4 The modules contain "Learning-Working Assignments" (LWAs) and related "Practical Exercises" (PEXs) as key elements.
 - LWAs are simulated or real job situations/assignments that are suitable for learning in a training environment (e.g. "small projects"). In a working environment, LWAs are real work situations. PEXs are therefore sub-sets of a LWA.
- 2.5 In principle, and following the philosophy of Competence-Based Education and Training (CBET), the modules can be used as a guide for learning in a training Centre, at the workplace; or a combination of both.

WHO IS A TERRAZZO WORKER LEVEL 1?

TERRAZZO WORKER LEVEL1 Is aperson who has knowledge and skills in mixing ingredients, preparing floor, installing and maintaining simple floor designs

OVERVIEW MODULES FOR A TERRAZZO WORKER UVQF LEVEL 1

Code	Module Title	Average duration	
		Contact hours	Weeks
		80 hours	2 weeks
UE/TW/M1.1	Perform design and layout		
		320 hours	8 weeks
UE/TW/M1.2	Perform terrazzo installation		
	perform terrazzo maintenance	160 hours	4 weeks
UE/TW/M1.3			
	Establish and manage terrazzo		
UE/TW/M1.4	business	200 hours	5 weeks
Summary	4 modules	760 hours	19 weeks

Note: Average duration is contact time but NOT calendar duration.

It is assumed that:

- 1 day is equivalent to 8 hours of nominal learning and
- 1 month is equivalent to 240hours of nominal learning

Information given on the average duration of training should be understood as a guideline. Quick learners may need less time than indicated or vice versa.

At completion of a module, the learner should be able to satisfactorily perform the included Learning Working Assignments, their Practical exercises and attached theoretical instructions, as the minimum exposure.

Prior to summative assessment by recognized Agencies, the users of these Modules Guides are encouraged to carefully consider continuous assessment using samples of (or similar) performance (practical) and written test items available in part 3 of this ATP for **TERRAZZO WORKER.**

Code	UE/TW/M1.1
Module title	M1.1: Perform design and layout
Related Qualification	Part of
	Uganda Vocational Qualification
	(Terrazzo Worker UVQ 1)
Qualification Level	1
Module purpose	At the end of this 6module, a trainee shall be
	able to perform design and layout
Learning-Working Assignments	LWA 1/1: Visit site
(LWAs)	LWA 1/2: Prepare workplan
	LWA 1/3: Prepare design
	LWA 1/4: Perform layout
	LWA 1/5: Perfom Occupational health,
	safety and environmental
	protection practices
	Note:
	1. The learning exercises may be
	repeated till the trainee acquires
	targeted competences.
	2. The trainer is advised to deliver
	relevant theoretical instructions with
	demonstrations as required to perform
	each learning assignment.
Related Practical Exercises	LWA 1/1: Visit site
(PEXs)	PEX 1.1: Study surface
(I EXS)	PEX 1.2: Take measurements
	LWA 1/2: Prepare workplan
	PEX 2.1: Prepare work program
	PEX 2.2: Identify labour
	PEX 2.3: Identify tools and equipment
	PEX2.4: Identify source of materials
	PEX2.5:Determine work duration
	PEX2.6: Identify type of materials
	PEX2.7: Identify possible source of materials
	LWA1/3: Prepare design
	PEX 3.1: Select tools and equipment
	PEX 3.2: Take measurements
	PEX 3.3: Develop working sketch
	PEX 3.4: Prepare design material

	LWA 1/4: Perform layout
	PEX 4.1: Clear site
	PEX 4.2: Prepare slab
	PEX 4.3: Take Measurements
	PEX4.4: Develop lay shapes
	PEX4.5: Form bays.
	LWA 1.5: Perform Occupational health,
	safety and environment
	protection practices.
	PEX 5.1: Dispose waste
	PEX5.2: Maintain personal hygiene
	PEX 5.3: Wear protective gear
	Precautions, rules and regulations on
	occupational health safety and
	environmental protection included in the
	listed related knowledge should be
	observed and demonstrated during LWAs
	and PEXs. E.g.wear protective gears
Occupational health and safety	
Pre-requisite modules	
Related knowledge/ theory	For occupational theory suggested for
	instruction/demonstration, the trainer is not
	limited to the outline below. In any case
	related knowledge/theory may be obtained
	from various recognised reference
	materials as appropriate:
	Metric system
	Measurement unit
	Different drawing instruments
	Types of surface
Average duration of learning	80 hours (10 days) of nominal learning
	suggested to include:
	 3 day of occupational theory and
	7 days of occupational practice
Suggestions on	7 days of occupational practice The acquisition of competencies (Skills,
Suggestions on organization of learning	The acquisition of competencies (Skills,
	The acquisition of competencies (Skills, knowledge, attitudes) described in this
	The acquisition of competencies (Skills, knowledge, attitudes) described in this module may take place at a training centre

Assessment	Assessment to be conducted according to
	the established regulations by recognised
	assessment body using related Practical
	and written Test Items from Item Bank
Minimum required tools/ equipment/	Measuring tape, trowel, spade, brush, hoe,
implements or equivalent	Hammer, spirit level, calculator, sharpener,
	strings, safety gears
Minimum required materials and	Divider strips, stationery, nails, grout
consumables or equivalent	
Special notes	

Code	UE/TW/M1.2
Module title	M1.2: Perform terrazzo installation
Related Qualification	Part of
	Uganda VocationalQualification
Qualification Level	(TerrazzoWorker UVQ 1)
Module purpose	At the end of this module, a trainee shall be
	able to perform terrazzo installation and
	maintenance
Learning-Working Assignments	LWA 2/1: Prepare terrazzo aggregates
(LWAs)	LWA 2/2: Prepare Terrazzo Mixture
	LWA 2/3: Lay Terrazzo mixture
	LWA 2/4: perform finishing
	LWA 2/5: Perform occupational health
	safety and environmental
	protection practices
	Note:
	1. The learning exercises may be
	repeated till the trainee acquires
	targeted competence
	2. The trainer is advised to deliver
	relevant theoretical instruction with
	demonstrations as required to perform
	each learning assignment
	1 1 WA 0/4 D
Related Practical Exercises (PEXs)	LWA 2/1: Prepare terrazzo aggregates
	PEX 1.1: Select tools, equipment and
	materials
	PEX 1.2: Grade terrazzo aggregates
	PEX 1.3: Clean terrazzo aggregate

UVQF: Assessment and Training Package (ATP) for TERRAZZO WORKER

QUALIFICATION LEVEL 1	January 2022
	PEX 1.4: sort different colours of terrazzo
	aggregates
	LWA 2/2: Prepare Terrazzo Mixture
	PEX 2.1: Select tools equipment and
	materials
	PEX 2.2: Batch terrazzo materials
	PEX 2.3: Mix terrazzo materials
	LWA 2/3: Lay Terrazzo mixture
	PEX 3.1: Select tools, equipment and
	materials
	PEX 3.2: Clean surface
	PEX 3.3: water surface
	PEX 3.4: Cast mixture
	PEX 3.5: Spread mixture
	PEX 3.6: Compact terrazzo mixture
	PEX 3.7: Level terrazzo mixture
	PEX 3.8: Cure terrazzo mixture
	LWA2/4 install skirting
	PEX 4.1. Take measurements
	PEX 4.2. Mark skirting height
	PEX 4.3. Make rough surface
	PEX4.4: Clean skirting surface
	PEX 4.5: Sprinkle water
	LWA 2/5: Perform finishing
	PEX 5.1: Clean surface
	PEX 5.2: Level terrazzo surface
	PEX 5.3: Grind terrazzo surface
	PEX 5.4: Grout terrazzo surface
	PEX5.5: Polish terrazzo surface
	LWA 2/6: Maintain tools and equipment
	PEX 6.1: Identify tools and equipment
	PEX 6.2: Assemble tools and equipment
	PEX 6.3: Cleantools and equipment
	PEX 6.4: Service equipment
	PEX 6.5: Store tools and equipment

	LWA2/7: Perform occupational health,
	safety and Environment
	protection Practises.
	PEX 7.1: Wear Protective gears
	PEX 7.2: Manage wastes
	PEX 7.3: Administer first aid
	PEX 7.4: Sensitize worker on health and
	safety measures
	PEX 7.5: Maintain personal hygiene
	Precautions, rules and regulations on
	occupational health safety and
	environmental protection included in the
	listed related knowledge should be
	observed and demonstrated during LWAs
	and PEXs
	None
Occupational health and safety	
Pre-requisite modules	
Related knowledge/ theory	For occupational theory suggested for
	instruction/demonstration, the trainer is not
	limited to the outline below. In any case
	related knowledge/ theory may be obtained
	from various recognised reference
	materials as appropriate:
	Storage of equipment and tools
	Different types of terrazzo
	Strage of materials
	Quality of terrazzo
	Componenets of terrazzo
	Expected life span of material
	 Ingredients of terrazzo
	Knowledge of colour collection
	Handle tools
	Usage of tools
	Procedure of laying terrazzo
	Knowledge in diffent shapes
	Knowledge about the diffent types of cement.

Average duration of learning	320 hours (40 days) of nominal learning
	suggested to include:
	 10 days of occupational theory and
	 30 days of occupational practice
Suggestions on	The acquisition of competencies (Skills,
organization of learning	knowledge, attitudes) described in this
organization or learning	module may take place at a training centre
	or its equivalent provided all equipment and
	materials required for training are in place.
Assessment	Assessment to be conducted according to
	the established regulations by
	recognised assessment body using related
	Practical and written Test Items from Item
	Bank
Minimum required tools/ equipment/	trowels, spades, levels, strings, Grinder,
implements or equivalent	hammer, gloves, google, overall, gumboots,
	saw blade, roller, ear plugs, hoe, tape
	measue
Minimum required materials and	Strips, string, stationery, brush
consumables or equivalent	
Special notes	Be strict on machine usage and safety
	precautions.

Code	UE/TW/M1.3.
Module title	M1.3: perform terrazzo maintenance
Related Qualification	Part of
	Uganda Vocational Qualification
	(TerrazzoWorker UVQ 1)
Qualification Level	1
Module purpose	At the end of this module, a trainee shall be
	able to perform terrazzo maintenance
Learning-Working Assignments	
(LWAs)	LWA 3/1: Site visit
	LWA 3/2: Prepare maintenance workplan
	LWA 3/3: Perform Repair work
	LWA 3/4: Maintain tools, equipment and material
	LWA 3/5: Occupational health, safety and
	environmental protection
	practices
	<u>Note:</u>
	1. The learning exercises may be
	repeated till the trainee acquires
	targeted competences.
	2. The trainer is advised to deliver
	relevant theoretical instructions with
	demonstrations as required to perform
	each learning assignment.
Related Practical Exercises	LWA 3/1: Visit Site
(PEXs)	PEX 1.1: Identify defects
	PEX 1.2: Take measurements
	PEX 1.3: Take sketches
	PEX 1.4: Take records
	LWA 3/2: Prepare maintenance workplan
	PEX 2.1: Identify tools and equipment
	PEX 2.2: Prepare work schedule
	PEX 2.3: Identify workers
	PEX 2.4: Procure materials

	LWA 3/3: Perform Repair work
	PEX 3.1: Mark damaged portion
	PEX 3.2: cut out damaged portion
	PEX 3.3: Prepare damaged surface
	PEX 3.4: put strips
	PEX 3.5: water damaged portion
	PEX3.6: Prepare mixture
	PEX 3.7: Cast mixture
	PEX 3.8: Compact mixture
	PEX 3.9: Cure terrazzo
	PEX 3.10 Grind terrazzo surface
	PEX 3.11: Grout terrazzo surface
	PEX 3.12: Polish terrazzo surface
	LWA 3/4: Occupational health, safety and
	environmental protection
	practices
	PEX 4.1: Administer first aid
	PEX 4.2: Display safety signs
	PEX 4.3: Wear Personal protective equipment
	PEX 4.4: Manage waste
	PEX 4.5: Manage usage of tools and equipment
	PEX 4.6: Sensitize about HIV and other
	diseases
	PEX 4.7: Train worker on operation of
	machines
Occupational health and safety	Precautions, rules and regulations on
	occupational health safety and
	environmental protection included
	in the listed related knowledge
	should be observed and
	demonstrated during LWAs and
	PEXs. E.g.wear protective gears
Pre-requisite modules	None

Related knowledge/ theory	For occupational theory suggested for instruction/demonstration, the trainer is not limited to the outline below. In any case related knowledge/ theory may be obtained from various recognised reference materials as appropriate: Storage of equipment and tools Different types of terrazzo Strage of materials Quality of terrazzo Componenets of terrazzo Expected life span of material Ingredients of terrazzo Knowledge of colour collection Handle tools Usage of tools Procedure of laying terrazzo Knowledge in diffent shapes Knowledge about the diffent types of cement. Knowledge on equipment
Average duration of learning	inspection 160 hours (20days) of nominal learning suggested to include: • 5 days of occupational theory and • 15 days of occupational practice
Suggestions on organization of learning	The acquisition of competencies (Skills, knowledge, attitudes) described in this module may take place at a training centre or its equivalent provided all equipment and materials required for training are in place.
Assessment	Assessment to be conducted according to the established regulations by recognised assessment body using related Practical and written Test Items from Item Bank

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Minimum required tools/ equipment/	First aid kit, Trowel, chisel,pick axe,
implements or equivalent	cutters, hammer, trowel, roller, strips,
	water, water spray pipe, broom, straight
	edge, tape measure
Minimum required materials and	Stationary, detergents, sanitizers, sand,
consumables or equivalent	cement, water
Special notes	

Code	UE/TW/M1.4
Module title	M1.5: Establish and manage terrazzo business
Related Qualification	Part of Uganda Vocational Qualification
	(TerrazzoWorker
	UVQ 1)
Qualification Level	1
Module purpose	At the end of this module, a trainee shall be able
Wioddie purpose	to establish and manage terrazzo business
Learning-Working	LWA 4/1: study terrazzo market
Assignments (LWAs)	LWA 4/2: set up terrazzo business
Addigiments (EVVA)	LWA 4/3: Market Terrazzo business
	LWA 4/4: Manage Terrazzo business
	LWA 4/5: Perform occupational Health, Safety
	and environment protection
	practices
	Note:
	1. The learning exercises may be
	repeated till the trainee acquires
	targeted competence
	2. The trainer is advised to deliver
	relevant theoretical instruction with
	demonstrations as required to perform
	each learning assignment
Related Practical Exercises	LWA 4/1: study terrazzo market
(PEXs)	PEX 1.1: identify potential customers
	PEX 1.2: Visit suppliers
	PEX 1.3: visit construction sites
	PEX 1.4: carry out exhibitions
	LWA 4/2: set up terrazzo business
	PEX 2.1: Find business location
	PEX 2.2: Obtain legal operation documents
	PEX 2.3: Prepare working space
	PEX 2.4: Purchase stock

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	PEX 2.5: Organise stock		
	PEX 2.6: Label stock		
	PEX 2.7: Display stock		

	LWA 4/3: Market Terrazzo business
	PEX 3.1: Carry out advertisement
	PEX 3.2: Make work portfolio
	PEX 3.3: offer discounts
	PEX 3.4: offer post instalment services
	PEX 3.5: Make business cards
	PEX 3.6: sponsor community programs
	PEX 3.7: Offer business incentives
	LWA 4/4: Manage Terrazzo business
	PEX 4.1: Purchase stock
	PEX 4.2: Keep records
	PEX 4.3 : supervise business
	PEX 4.4 : Recruit workers
	LWA 4/5 : Performoccupational Health, safety
	and environment protection
	practices
	PEX 5.1: Manage waste
	PEX 5.2: Administer first aid
	PEX 5.3: Wear protective gear
	PEX 5.4: Practise personal hygiene
	PEX 5.5: Sensitize workers on health issues
Occupational Health and	Precautions, rules and regulations on
Safety	occupational health safety and environmental
	protection included in the listed related
	knowledge should be observed and
	demonstrated during LWAs and PEXs

Related Knowledge/	For occupational theory suggested for
Theory	instruction/demonstration, the trainer is not limited to the
	outline below. In any case related knowledge/ theory may
	be obtained from various recognised reference materials
	as appropriate:
	Advertising
	Financial knowledge
	Customer care
	Report writing
	Record keeping
	Commercial knowledge
	Branding
	Portfolio making
	Rules and regulations/ government policies
	Safety, health and environmental knowledge
	Conflict resolution
	Knowledge on Sales maximization
Average Duration of	200hours (25days) of nominal learning suggested to
Learning	include:
	20 day of occupational theory and
	5 days of occupational practice
Suggestions On	The acquisition of competencies (Skills, knowledge,
Organization of	attitudes) described in this module may take place at a
Learning	training centre or its equivalent provided all equipment and
	materials required for training are in place.
Assessment	Assessment to be conducted according to the established
	regulations by
	recognised assessment body using related Practical and
Minimum Daminad	written Test Items from Item Bank
Minimum Required	Computers, furniture, printers, cameras, calculators,
Tools/ Equipment/	weighing scale, grinder, tape measure, spirit level, hummer,
	generators, mixing tools

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Implements or	
Equivalent	
Minimum Required	Stationary, electricity, sanitizers, first aid kit, internet, stock,
Materials and	packing bags, gloves, face shields, overalls, water,
Consumables or	
Equivalent	
Special Notes	Customers are always the king therefore customer
	care is so paramount.
	Financial discipline

3.0 ATP- PART III

Assessment Instruments for Terrazzo Worker

- 3.1 Assessment of occupational competence is the procedure by which evidence is gathered and judged to decide if an individual (candidate) has met the stipulated assessment standards.
- 3.2 Assessment of occupational competence should comprise of both practical (performance) testing and written (theory/knowledge) testing.
- 3.3 Based on the Occupational Profile and Training Modules, a combined panel of job practitioners and Instructors reviewed a substantial number of test items for assessing (practical) performance as well as items for assessing occupational knowledge (theory) all stored in an electronic Test Item Bank (TIB) at the Directorate of Industrial Training.
- 3.4 Performance (Practical)TestItems(PTI) are closely related to typical work situations in Ugandan business enterprises. They comprise of a test assignment for candidates and assessment criteria and/or scoring guides for assessors' use.
- 3.5 Written Test items (WTI) for written testing of occupational theory, (knowledge) are presented in different forms which include:
 - Short answer test items.
 - Multiple choice test items
 - Matching test items

These WTIs herein focus on functional understanding as well as troubleshooting typically synonymous with the world of work.

- 3.6 Composition of assessment/test papers will always require good choices of different types of WTI in order to ensure the assessment of relevant occupational knowledge required of candidates to exhibit competence.
- 3.7 The test items contained in the Test Item Bank may be used for continuous/formative assessment during the process of training as well as for summative assessment of candidates who have acquired their competences non-formally or informally
- 3.8 In this document, samples of test items for assessing both performance (practical) and occupational knowledge (theory) of Terrazzo workers included a larger selection of test items can be obtained as electronic or printed copies from the UVQF Secretariat or designated outlet.

3.9 Overview of Test Item Samples Included

		Numbers included
No	Type of test Items	
		3
1	Written (Theory)- Short Answer	
2.	Written (Theory)- Multiple Choice	2
	Metabling with gangin	4
3.	Written (Theory)- Matching with generic	I
4.	Written (Theory)- Matching with cause effect	1
5	Written(theory)-Matching with work-sequence	1
	g man tempequence	1
6.	Performance (Practical)Test Items	
	Total	9

DIT/ QS	Test Item Database Written (Theory) Test Item- no. 1				
Occupational Title:	Terrazzo Worker				
Competence level:	Level 1				
Code no.					
	Short answer	$\sqrt{}$			
Test Item	Multiple choice				
type:	Matching item	Generic	Cause- Effect	Work-sequence	
Complexity level:	C1				
Date of OP:	January 2022				
Related M1.2 modules:					
Time allocation:	4 Minutes				

Test Item	List any four materials used in terrazzo construction
Answer spaces	iiiiiv.
Expected key (answers)	 i. Divider strips ii. Cement iii. Water iv. Colour oxide v. Sand vi. Marble chips vii. Granite

	Test Item Database				
DIT/ QS	Written (Theory) Test Item- no. 2				
Occupational Title:	Terrazzo Worker				
Competence level:	Level 1				
Code no.					
	Short answer				
—	Multiple choice				
Test Item type:	Matching item	Generic	Cause- Effect	Work-sequence	
Complexity level:	C2				
Date of OP:	January 2022				
Related modules: M1.4					
Time allocation:	allocation: 4 minutes				

Test Item	List three ways of marketing Terrazzo product.
Answer spaces	iiiiii
Expected key (answers)	 i). Advertising ii). Giving discounts iii). Participating in exhibitions iv). Use of bronchures v). Use of business cards vi). Participating in community work

DIT/ QS	Test Item Database Written (Theory) Test Item- no. 3			o. 3	
Occupational Title:	Terrazzo Worker				
Competence level:	Level 1				
Code no.					
	Short answer	√			
	Multiple choice				
Test Item type:	Matching item	Generic	Cause- Effect	Work-sequence	
Complexity level:	C2				
Date of OP:	January 2022				
Related modules:	M1.1				
Time allocation:	ocation: 4 minutes				

Test Item	Suggest any three ways of ensuring safety at the site
Answer spaces	i. ii. iii. iii.
Expected key (answers)	 i). Display of sign posts ii). Wearing of protective gears iii). Proper usage of tools iv). Installation of fire fighting equipments v). Create emergency exits vi). Sensitization about safety measures vii). Administer first aid.

	Test Item Database				
DIT/ QS	Written (Theory) Test Item- no. 04				
Occupational Title:	Terrazzo Worker				
Competence level:	Level 1				
Code no.					
	Short answer				
Test Item type:	Multiple choice	V			
rest item type.	Matching item	Generic	Cause-Effect	Work-sequence	
Complexity level:	C2				
Date of OP:	January 2022				
Related Module:	M1.2				
Time allocation:	2 minutes				
Test Item	is the material used in terrazzo installation				
Distracters and correct answer	A. Strips B. Hummers C. Levels D. Grinders				
Key (answer)	A				

217/22	Test Item Database				
DIT/ QS	Written (Theory) Test Item- no. 05				
Occupational Title:	Terrazzo Worker				
Competence level:	Level 1				
Code no.					
	Short answer				
Took Itoms towns	Multiple choice	√			
Test Item type:	Match ng	Generic	Cause-Effect	Work-sequence	
	item				
Complexity level:	C1				
Date of OP:	January 2022				
Related Module:	M1.2				
Time allocation:	2 minutes				

Test Item	is the mixing ratio of terrazzo mortar
Distracters and correct answer	A. 1:6 B. 1:5 C. 1:2 D. 1:3
Key (answer)	С

DIT/ QS	Test Item Database			
DII/ Q3	Written (Theory) Test Item- no. 06			
Occupational Title:	Terrazzo worker			
Qualification level:	Level 1			
Code no.				
	Short answer			
Test Item type:	Multiple choice			
rest item type.	Matching item	Generic	Cause- Effect	Work-sequence
Complexity level:	C3			
Date of OP:	January 2022			
Related Module:	M.3			
Time allocation:	6 Minutes			
Test Item	Match the following	ng tools agai	inst their uses	

Colun	Column (A) [tools]		
Α	Rammer		
В	Brush		
С	Drill		
D	Wheel Barrow		

Colur	Column (B) [Uses]		
1	Mixing mortar		
2	Creating holes		
3	Spreading mortar		
4	Cleaning surfaces		
5	Transporting mortar		
6	Compacting mortar		
7			

l _e	
Var (anamar)	
Key (answer)	A-6, B-4, C-2, D-5
111) (,,,

DIT/ QS	Test Item Database					
DII/ QS	Written (Theory) Test Item- no. 07					
Occupational Title:	Terrazzo Worker					
Competence level:	Level 1					
Code no.						
	Short answer					
Test Item type:	Multiple choice					
rest item type.	Matching item	Generic	Cause- Effect	Work-sequence		
			V			
Complexity level:	C3					
Date of OP:	January 2022					
Related Module:	M1.2					
Time allocation:	8 Minutes					

Test Item	Match the following causes to their effects in terrazzo installation
-----------	--

Column (A) [Causes]			
Α	Inadequate compaction		
В	Inadequate grinding		
С	Chemical reaction		
D	Inadequate polishing		

Colu	Column (B) [effects]			
1	Development of stains			
2	Loose materials			
3	Development of cracks			
4	Dampness of the floor			
5	Unlevelled surface			
6	Development of rough surface			

Key (answer)	A-3, B-5, C-1, D-6

DIT/ QS	Test Item Database					
DII/ QS	Written (Theory) Test Item- no. 08					
Occupational Title:	Terrazzo Worker					
Competence level:	Level 1					
Code no.						
	Short answer					
Tost Itom type:	Multiple choice					
Test Item type:	Matching item	Generic	Cause- Effect	Work-sequence		
	Waterling item			V		
Complexity level:	C2					
Date of OP:	January 2022					
Related Module:	M1.2					
Time allocation:	10 Minutes					

Test Item	Arrange the following steps of laying terrazzo mixture in their
rest item	chronological order.

Column A (Order)		Column B (Steps in wrong order)
1 st	Α	water surface
2 nd	В	Cure terrazzo mixture
3 rd	С	Batch materials
4 th	D	Level terrazzo mixture
5 th	Е	Compact terrazzo mixture

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6 th	F	Spread mixture
7 th	G	Cast mixture
8 th	Н	Clean surface

Key (answer)	1st -C, 2nd -H, 3rd -A, 4th -G, 5th -F, 6th -E, 7th -D, 8th -B
, ,	

DIT/ QS	Test Item Database Performance Test Item- no.01.	
Occupational Title:		
Competence level:	1	
Code no.		
Test Item:	Prepare 1 square meter working space for terrazzo installation following the details below; Slab thickness of 25mm, bays of 0.5 square meters, a skirt of 100mm height and a mix ratio of 1:2:5	
Complexity level:	P2	
Date of OP:	January 2022	
Related Module:	M1.1	
Related skills and knowledge:		
Required tools, materials and equipment:	Cement, Sand ,Aggregates, spade, hoe, trowel, spirit level, water, wheel barrow, builder's square, watering can, straight edges, tape measure, stationery, Rammer	
Time allocation:	6 hours	
Preferred venue:	Workshop	
Remarks for candidates	Avail protective gear Observe health safety and environment	
Remarks for assessors	Provide all the tools equipment and materials listed above	

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Max. Score **Assessment** Scoring guide criteria **Process Result** Preparation Wore protective equipment before task Helmet Overall 4 Safety shoes Gloves Dust mask 2 Selected tools, equipment and materials

Tools equipment and materials observed

at site

Sketched formwork

Г		Sketch of 1 square meter working space, thicknes 25mm floor slab, 100mm height skirt, 90° between floor skirt and wall skirt, 0.5square metres bays		3
2	Assessment of	Cleaned work space	2	
	workability	Cleared work place observed		2
		Transferred measurements from the sketch to the ground • 1 square meter working space	2	
		Slab floor thickness of 25mm	2	
		100mm of skirt	2	
		0.5 square meters bay	2	
		Actual measurements observed		3
	Dug the ground		4	
		Removed unstable ground observed		2
		Watered ground observed		2
Compacted ground		Compacted ground	3	
		Firmed ground observed		2
	Levelled ground observed 1:2:5 ratios of cement:Sand:Aggregate measured		2	
			4	

2

3

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QUA	QUALIFICATION LEVEL 1 January 2			January 2022
		Mixed materials for slab	3	
		Uniformly mixed concrete observed		3
		Casted concrete	2	
		Spreaded concrete	2	
		Evenly spread observed		2
		Levelled concrete	2	
		Gentle slope surface observed		2
		Compacted concrete	2	
		Honey combed concrete observed		2
4	Clean up work	Collected tools and equipment		2
	area	Cleaned tools and equipment	2	
		Tools and equipments free of fresh concrete observed		2

	Handed over/stored tools and equipment	3	
	Cleaned work area	2	
	Dirt free work area observed		2
		46	35
TOTAL (Y)	Process + Results	$\frac{x}{63}$ x 100	
MAXIMUM SCORE			

4.0 ATP- PART IV

INFORMATION ON DEVELOPMENT PROCESS

4.1 Occupational Profile Reviewed (January 2022)

The Occupational Profile was exclusively developed by job practitioners who were working in the Terrazzo worker occupation. The job expert panel, guided by UVQF Facilitators defined duties and tasks performed and provided additional generic information regarding the occupation.

4.2 Training Module Reviewed (January 2022)

Based on the <u>Occupational Profile</u> for Terrazzo worker of January 2022, Training Modules were developed by job practitioners, guided by UVQF Facilitators.

4.3 Test Item Review (January 2022)

Based on the <u>Occupational Profile</u> for Terrazzo worker of January 2022, and Training Modules, Test Items were developed by combined panels of instructors and job practitioners, guided by UVQF Facilitators.

4.4 Methodology

The rationale for the Assessment and Training Package development was to link Vocational Education and Training to the real world of work by bridging Occupational Standards to Training Standards through industry-led Standards-Based Assessment.

Active participation of both instructors and job practitioners' panels consolidated the development philosophy.

The panelists worked as teams in workshop settings complemented by offworkshop field research and literature review activities including international benchmarking.

4.5 Development Panel

The participating panels of Job Practitioners required at different stages were constituted by members from the following organizations:

No.	Name	Institution/ Organization
1.	Nabikindu Caroline	MoES
2.	Funa Simon	NCDC
3.	Okello William	UNEB
4.	Tumukuratire Collins	Mbarara High School
5.	Mukwaya Farouk	Namirembe Hillside
6.	Kafeero Adnan	Lubiri S.S
7.	Taremwa Raymond	Ntare school
8.	Komakech Joseph	Jinja S.S
9.	Ssonko Alex	Semakokilo Construction Ltd
10.	Nsubuga Francis	Mikigan Investment (U) Ltd
11.	Kizito Jackson Walter	JK Costruction Company
12.	Agaba Gilbert	Kwed Construction Ltd

4.6 Facilitator team

This Assessment and Training Package was developed by a Facilitator team listed below:

- 1. Team Leader Mr. Byakatonda Patrick, Ag Deputy Director, DIT
- 2. Coordinated by Ms.Mukyala Ruth, Ag.DD/DIT
- 3. Facilitators Ms. Mushabenta Brendah and Mr. Ongom Augustine.
- 4. Data Entrants- Mr. Kasadha Kizire Joel and Mr. Mugaya Ashiraf
- 5. Complied by- Ms. Mushabenta Brendah

4.7 Reference time:

The Assessment and Training Package was developed in January 2022 and may be periodically revised to match the dynamic trends in the occupation and hence issued in different versions.

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