



THE REPUBLIC OF UGANDA **Ministry of Education and Sports**

Directorate of Industrial Training



Assessment and Training Package

> For an **OIL PALM FARMER**

Qualification Level: 1

Occupational Cluster: Agriculture

September 2020

Developed by:

Qualifications Standards Department Directorate of Industrial Training

Funded by:

Government of Uganda



Assessment and Training Package

For an OIL PALM FARMER

Qualification Level: 1

Occupational Cluster: Agriculture

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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 fall 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.
- (j) 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:

- (1) 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 recognised 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) Harmonising 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 organises 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 Kajubi Report (1989) and the Uganda Government White Paper on Education Review (1992) emphasised that the Uganda Secondary School Education should be vocationalised.

The World Bank Report on education in Uganda 2007 observed that although Uganda was experiencing steady economic growth on one hand, the secondary education curriculum was inadequately addressing the social and economic needs of the country on the other. The Report further noted that it is not the very top academic cadres that contribute most to the growth of the GDP but rather the competent middle level technicians that are flexible and technologically literate that the economy needs in the labour market at all levels.

Correspondingly, the NDP III 2020/21- 2024/5 highlights (i) low labour productivity (ii) high youth unemployment (38%) (iii) low transition rates from training to employment (35%) as some of the key challenges to Human Capital Development in Uganda.

In order to overcome these challenges, NDP III 2020/21- 2024/5, under objective 2 peaks the need to train the learners for the urgently needed skills and mainstream a dual education and training system. This paved way for the development of the lower secondary school vocational curriculum which supports both academic and vocational training.

The afore is in line with the Uganda Vision 2040. Under section 261, it emphasises that learners will be accorded opportunities to excel in the skills areas they are placed into. These will range from sports and cut to technical and vocational training. Hitherto, section 262 clearly states that the entire education system will be changed to emphasise practical skills, attitude and moral values.

Government of Uganda through the Ministry of Education and Sports rolled out the New Lower Secondary Curriculum in secondary schools countrywide during the first term of the academic year 2020. The overall goal of this curriculum is to produce graduates with employable skills and who are competitive in the labour market. It should be emphasised that vocational training will produce graduates who are employable. In the New curriculum, emphasis will be on equipping learners with employable skills and competencies. This will enable learners perform the requisite duties of the specified occupations. This is the reason why the lower secondary school vocational curriculum was tailored to the assessment requirements of the world of work.

Reading from the Curriculum Framework page 12, it is stated that the learners will be assessed by DIT. Upon assessment and certification, the graduates will be employable and competitive in the labour market. It's against this background that DIT, within its mandate vested in the BTVET Act, 2008 comes on board to take the lead in the development of the requisite Assessment and Training Packages (ATPs) for the various occupations that will be assessed under the Lower Secondary Curriculum.

The ATPs 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 and Training Package for training, assessment and certification of an **OIL PALM FARMER QUALIFICATION LEVEL 1.**

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

Alex Kakooza

Permanent Secretary

Executive Summary

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

- 0.1 PART I: The Occupational Profile (OP) of an OIL PALM FARMER. This Occupational Profile which was reviewed by Oil Palm farmers practicing in the world of work mirrors the duties and tasks that Oil Palm farmers are expected to perform.
- 0.2 PART II: Training Modules in the form of guidelines to train Oil Palm farmers both on the job as well as in training centres (or combinations of both venues of learning). The Training Modules herein have been reviewed basing on the Occupational Profile and hence are directly relevant for employment.
- 0.3 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 an OIL PALM FARMER. These assessment instruments were reviewed jointly by job practitioners (Oil Palm farmers) and instructors based on the occupational profile and training modules.
- 0.4 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.
- 0.5 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 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 centres as well as companies can accommodate more learners in a given period of time.
- 0.6 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).

- 0.7 The parts of this Assessment and Training Package were sequentially reviewed as follows:
 - i Part 1: Occupational Profile: August 2020
 - ii Part 2: Training Modules: August 2020
 - iii Part 3: Assessment Instruments (initial bank): August 2020

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

DIT takes responsibility of any shortcomings that might be identified in this publication and welcomes suggestions for effectively addressing the inadequacies. The suggestion can be communicated to DIT through P.O. Box 20050, Kampala or through email uvaf.dit@gmail.com.

Patrick Byakatonda Ag Director

Acknowledgement

The Qualifications Standards Department of DIT acknowledges the valuable contributions to the review of this Assessment and Training Package by the following persons, Institutions and organisations:

- 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.
- Teachers and instructors of Oil Palm farming from various secondary schools.
- Agriculture Curriculum Specialists from NCDC.
- Examination specialists from UNEB.
- The facilitators involved in guiding the development panels in their activities.
- The Government of Uganda for financing the development of this ATP.

Abbreviations and Acronyms

A&C Assessment and Certification

ATP Assessment and Training Packages

CBET Competency Based Education and Training

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, Vocational, Education and Training

UVQ Uganda Vocational Qualification

UVQF Uganda Vocational Qualifications Framework

WTI Written (Theory) Test Item

Key Definitions

Assessment is the means by which evidence is gathered and Assessment

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.

Competence-Based Education and Training means that **CBET** programs:

- Have content directly related to work. 2. Focus is on 'doing something well'.
- 3. Assessment is based upon industry work standards, and
- Curricula are developed in modular form. 4.

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).

1.

Learning-Working Assignment (LWA) 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/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**

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 of work enhance the relevance of training and learning to the

requirements of the world of work.

Occupational Profiles which define what a person is supposed to do which becomes the reference points for developing assessment standards and modular curricula.

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.

Tasks

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. (Also see: Duty)

1.0 ATP-PART I

Occupational Profile for an OIL PALM FARMER

- 1.1 The OCCUPATIONAL PROFILE (OP) for "AN OIL PALM FARMER" below defines the *Duties* and *Tasks* a competent OIL PALM FARMER 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 panelists 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 panelists, facilitators and coordinators who participated in developing this Occupational Profile for an OIL PALM FARMER are listed on the following page.

Job Expert Panel

Muyanja Gerald

NCDC

Mugeere Matia

Farmer

Okello Richard Adolo

Farmer

Kirigwajjo Anthony

Sir Apollo Kaggwa SS – Mukono

Musolooza Leonard

Farmer

Lubega Sunday Ronald

Farmer

Mukasa Godfrey

Farmer

Loumo David

Kololo S.S.S

Mugumira Charles

Kalangala Oil Palm Growers' Trust

Nkonge Anatoli

Farmer

Mugasho Rose

City High School

Co-ordinator

Mukyala Ruth. E

Directorate of Industrial Training

Facilitators

Nakyobe Safinah

Directorate of Industrial Training

Nalwanga Phionah

Directorate of Industrial Training

Funded by

Government of Uganda



THE REPUBLIC OF UGANDA Ministry of Education and Sports

Directorate of Industrial Training

Occupational Profile

For an

"OIL PALM FARMER"

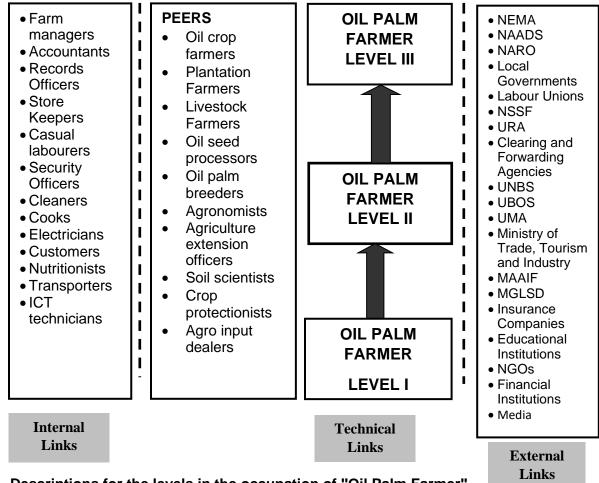
Developed by: Qualifications Standards
Department of Department of Industrial
Training

Dates of workshop: 1st -11th September 2020

NOMENCLATURE FOR THE OCCUPATION OF AN OIL PALM FARMER

Definition: An OIL PALM FARMER: is a person who grows oil palms for commercial purposes.

JOB ORGANISATION CHART FOR AN OIL PALM FARMER



Descriptions for the levels in the occupation of "Oil Palm Farmer"

UVQ Level I Oil Palm Farmer: Is an individual who grows oil palms using basic

agronomic practices on a farm.

UVQ level II Oil Palm Farmer: Is an individual who grows oil palms using high level

technology and agricultural practices.

UVQ Level III Oil Palm Farmer: Is an individual who grows oil palm on large scale for

export.

Duties and Tasks

A. PLAN OIL PALM FARMING ACTIVITIES	A1. Carry out feasibility study A4. Determine site structural plan A7 Prepare work schedules	A2. Determine farm location A5. Determine factor inputs A8. Prepare procurement plan for inputs	A3. Prepare financial plan A6. Determine oil palm variety A9. Determine production methods
B. ESTABLISH OIL PALM NURSERY BED	B1. Select site B4. Till land B7. Sterilise soil	B2. Clear landB5. Prepare growth MediumB8. Apply Fertilisers	B3. Demarcate land B6. Test for germ inability B9 Pot growth media.
	B10. Plant seeds B13. Transfer seedlings to secondary nursery	B11. Erect shade B14. Harden off seedlings	B12. Water seedlings
	Tidisery]
C. ESTABLISH OIL PALM PLANTATION	C1. Construct farm infrastructure C4. Transplant	C2. Take standard spacing measurements C5. Plant seedlings	C3. Dig planting holes C6. Shade seedlings
	seedlings		
D. MAINTAIN OIL PALM PLANTATION	D1 . Perform gap Filling	D2. Irrigate oil palms	D3. Control pests and diseases.
LAWATON	D4 . Control Weeds	D5 . Prune oil Palm trees	D6 . Apply growth boosters.
	D7. Conserve soil and water	D8. Repair farm infrastructure	

E. PERFORM HARVEST AND	E1. Identify ready bunches	E2. Select harvesting tools and equipment	E3. Cut ripe bunches
POST HARVEST HANDLING OF OIL PALM	E4. Collect bunches and fruits	E5. Transport produce	E6. Clear platform
	E7. Sort bunches and fruits	E8. Store produce	
			_
F. MARKET OIL PALM PRODUCE	F1. Grade oil palm	F2 . Brand oil palm products	F3. Label oil palm products
TALIII NODGOL	F4 Package oil palm Product.	F5. Price produce	F6. Advertise produce
	F7. Sell Oil Palm produce	F8. Communicate with clients	
	G1. Wear personnel	G2. Manage waste	G3 . Sensitise workers
G. PERFORM OCCUPATIONAL HEALTH, SAFETY	protective Gear	C2. Manage Waste	on key health issues e.g. (HIV, Covid – 19 etc.)
AND ENVIRONMENTAL PROTECTION PRACTICES	G4 . Administer first aid	G5. Identify hazards on oil palm plantation	G6. Protect water sources
FRACTICES	G7. Install risk protective measures	G8 . Guide and counsel workers	G9 . Perform firefighting
			_
H. PERFORM ADMINISTRATIVE	H1. Manage human resources	H2. Keep records	H3. Network with stakeholders
TASKS	H4. Manage Finances	H5. Procure farm inputs	H6. Conduct meetings
	H7. Pursue continuous professional development	H8. Pay bills	H9. Register business
	H10.Comply with regulations and policies		,

Additional Information

Related Knowledge & Skills

- 1. Fertiliser and their application
- 2. Measurements and dimensions
- 3. Pests and diseases control measures
- 4. Agrochemicals and their applications.
- Seed germinability testing and seed dormancy
- 6. Literacy and numeracy
- 7. Site selection
- 8. Marketing techniques
- 9. Planting methods
- 10. Business planning and management
- Health, safety and environmental protection practices
- 12. Harvesting techniques
- 13. Leadership skills
- 14. Communication skills
- Problem solving and critical thinking skills
- 16. Weed control methods
- 17. Pruning techniques
- 18. Time management
- 19. Hardening off seedlings

- 20. Land surveying
- 21. Tools, materials and equipment usage
- 22. Growth media preparation
- 23. Soil sterilisation
- 24. Potting growth media
- 25. Establishing shade
- 26. Seedbed preparation
- 27. Propagation materials
- 28. Farm infrastructure construction
- 29. Post-harvest handling
- 30. Record keeping
- 31. First aid administration
- 32. Firefighting techniques
- 33. Waste management
- 34. Sensitisation of workers on epidemics and pandemics
- 35. Soil and water conservation
- 36. Risk management
- 37. Human resource management
- 38. Financial literacy
- 39. ICT skills
- 40. Oil palm production technology
- 41. Oil palm agronomy

Tools, Equipment and **Materials** 1. Pangas 23. Seeds/seedlings 45. Soak pits 24. Herbicides 46. Tarpaulin 2. Sickles 25. Pesticides 47. Notice board 3. Hand hoes 26. Fertilisers 48. Stores 4. Spades 27. Fungicides 49. Vehicles 5. Harvesting and pruning 28. Ox-carts 50. Sharpening stone knives 29. Bicycles 51. Dibbers 6. Measuring tapes 30. Wheel barrows 52. Gumboots 7. Axes 31. Sharpening Files 53. Helmets 8. Strings 32. Computers 54. Gloves 9. Chisels 33. Furniture 55. Power saws 10. Machetes 34. Watering cans 56. Agro chemicals 11. Poles 35. First aid kit 57. Pliers 12. Spray pumps 36. Fire extinguishers 58. Bags/sacks 13. Face masks 37. Water pumps 59. Slashers 14. Lifting machines 38. Hacksaws 60. Mowers 15. Drilling machines 39. Hammers 61. Animal traps 16. Fencing materials 40. Mobile phones 62. Steriliser equipment 17. Pipes and fittings 41. Buckets 63. Building materials 42. Jerrycans 18. Forked hoes 64. Baskets 43. Weighing scales 19. Ploughs 44. Stationery 65. Water storage facilities 20. Water 21. Disposal pits 66. Water harvesting 22. Incinerators equipment 67. Water sources

Attitudes/Traits/Behaviour

- 1. Time manager
- 2. Patient
- 3. Trustworthy
- 4. Willing and ready to learn
- 5. Responsible
- 6. Obedient
- 7. Committed
- 8. Knowledgeable
- 9. Reliable
- 10. Social
- 11. Kind
- 12. Honest
- 13. Entrepreneur
- 14. Self-driven
- 15. Gentle
- 16. Exemplary
- 17. Courageous
- 18. Perseverance
- 19. Logical
- 20. Hardworking
- 21. Humble
- 22. Respectful
- 23. Reliable
- 24. Confident
- 25. Competent
- 26. Flexible

Future Trends and Concerns

- 1. Price fluctuation
- 2. Climatic changes
- 3. Political instability
- 4. Accidents
- 5. Unfavourable government policies
- 6. Technological advancements
- 7. Land reforms
- 8. Outbreak of crop pests and diseases
- 9. Outbreak of epidemics/pandemics
- 10. Competition from other oil seed crops
- 11. Natural hazards
- 12. Child labour
- 13. Loss of biodiversity
- 14. Concerns on human health issues
- 15. Environmental concerns
- 16. Compliance on production agreements
- 17. Population growth
- 18. Demand for oil palm products

2.0 ATP - PART II

Training Modules for AN OIL PALM FARMER

- 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 Oil palm farming occupation to acquire job specific skills and knowledge (i.e. competencies) module by module. A single module can be accomplished within a relatively short duration 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 centers, as well as companies can accommodate more students in a given period of time.
- 2.3 The modules were developed jointly by both instructors and job practitioners. They were developed 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 AN OIL PALM FARMER LEVEL 1?

An Oil Palm Farmer Level 1 Is an individual who grows Oil Palms using basic agronomic practices on a farm.

TRAINING MODULES FOR AN OIL PALM FARMER UVQ LEVEL 1

Code	Module Title	Average duration	
		Contact hours	Weeks
UE/OPF/M1.1	Establish Oil Palm Nursery Bed	240	6
UE/OPF/M1.2	Establish Oil Palm Plantation	200	5
UE/OPF/M1.3	Manage Oil palm plantation	200	5
UE/OPF/M1.4	Perform Oil Palm Harvest and Post Harvest Handling	160	4
UE/OPF/M1.5	Establish an Oil Palm Farming Enterprise	160	4
Summary	5 Training Modules	920 hours	23weeks

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 160 hours 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 recognised 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.

UVQF: Assessment Training Packages (ATP) For an OIL PALM FARMER

QUALIFICATION: LEVEL 1 September 2020

Code	UE/OPF/M1.1	
Module title	M1.1: Establish Oil Palm Nursery Bed	
Related Qualification	Part of	
	Uganda Vocational Qualification	
	(Oil Palm Farmer UVQ 1)	
Qualification Level	1	
Module purpose	At the end of this module, a trainee shall be able to set up an oil palm nursery bed.	
Learning-Working	LWA 1/1: Prepare Nursery Bed	
Assignments (LWAs)	LWA 1/2: Prepare Growth Media	
	LWA 1/3: Prepare Seeds	
	LWA 1/4: Plant/Transfer Seedlings	
	LWA 1/5: Maintain Oil Palm Nursery Bed	
	LWA 1/6: Harden Off Seedlings	
	LWA 1/7: Maintain Tools and Equipment	
	LWA 1/8: Perform Occupational Health, Safety and Environmental Protection Practices.	
	Environmental Protection Practices.	
	Note:	
	1. The learning exercises may be repeated until the	
	trainee acquires targeted competence.	
	2. The trainer is advised to deliver relevant theoretical	
	instruction with demonstrations as required to perform each learning assignment.	
	Ç Ç	
Related Practical	LWA 1/1: Prepare a Nursery Bed	
Exercises (PEXs)	PEX 1.1: Select site	
	PEX 1.2: Select tools	
	PEX 1.3: Clear site	
	PEX 1.4: Demarcate site	
	PEX 1.5: Plough site	
	LWA 1/2: Prepare Growth Media	
	PEX 2.1: Select growth Media	
	PEX 2.2: Sterilise growth media	
	PEX 2.3: Pot growth media	
	PEX 2.4: Apply fertiliser in growth media	
	PEX 2.5: Water growth Media	

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QUALIFICATION: LEVEL 1	September 2020

UVQF: Asses QUALIFICATION: LEVEL 1	sment Training Packages (ATP) For an OIL PALM FARMER September 2020
	LWA1/3: Prepare Seeds
	PEX 3.1: Procure seeds
	PEX 3.2: Select seeds
	PEX 3.3: Sort seeds
	PEX 3.4: Select tools and equipment
	PEX:3.5: Treat seeds
	PEX 3.6: Test for seed germinability
	PEX 3.7: Break seed dormancy
	PEX 3.8: Plant seeds.
	LWA 1/4: Transfer Seedlings
	PEX 4.1: Fill large pots with growth media
	PEX 4.2: Select healthy seedlings
	PEX 4.3: Transfer seedlings to large pots
	PEX 4.4: Water seedlings
	LWA 1/5: Maintain Oil Palm Nursery Bed
	PEX 5.1: Select tools, equipment and materials
	PEX 5.2: Carryout weeding
	PEX 5.3: Apply fertilisers
	PEX 5.4: Irrigate seedlings
	PEX 5.5: Control pests and diseases
	LWA 1/6: Hardening off Seedlings
	PEX 6.1: Increase spacing between large pots
	PEX 6.2: Reduce watering frequency
	PEX 6.3: Reduce shade
	LWA 1/7: Maintain Tools and Equipment
	PEX 7.1: Assemble tools and equipment
	PEX 7.2: Clean tools
	PEX 7.3: Sharpen tools
	PEX 7.4: Repair tools
	PEX 7.5: Disinfect tools
	PEX 7.6: Lubricate tools
	PEX 7.7: Paint tools and equipment
	PEX 7.8: Sheath tools

PEX 7.9: Store tools

UVQF: Assessment Training Packages (ATP) For an OIL PALM FARMER QUALIFICATION: LEVEL 1 September 2020

QUALIFICATION: LEVEL 1	September 2020		
	LWA 1/8: Perform Occupational Health Safety and Environmental Protection Practices		
	PEX 8.1: Administer first aid		
	PEX 8.2: Wear personnel protective gear		
	PEX 8.3: Observe personal hygiene		
	PEX 8.4: Guide and counsel workers		
	PEX 8.5: Sensitise workers on health issues and work related hazards		
	PEX 8.6: Manage waste		
	PEX 8.7: Display safety and precautionary signs		
	PEX 8.8: Train workers on hazard management		
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 gear		
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:		
	Sterilisation of growth media		
	Conditions necessary for oil palm seedlings germination		
	Primary and secondary nursery		
	Testing for seed germinability		
	Growth requirements of oil palm seedlings		
	Agro-chemical handling		
	Application of fertilisers		
	Hazards, pests and diseases control measures		
	Weed control measures		
	Soil fertility management		
	Occupational health, safety and environmental protection practices		
	Agronomy of Oil palm plants		
	Tools, materials and equipment		
	Measurements and dimensions		
	Nursery bed establishment		
	Nursery bed maintenance		

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QUALIFICATION: LEVEL 1	September 2020
	Knowledge on nursery bed irrigation
	Handling tools, materials and equipment
Average duration of	240hours (30days) of nominal learning suggested to include:
learning	05 days of occupational theory and
	25 days of occupational practice
Suggestions on	The acquisition of competencies (skills, knowledge, attitudes)
organisation of	described in this module may take place at a training centre or its equivalent provided all equipment and materials required
learning	for training are in place.
Assessment	Assessment to be conducted according to the established
	regulations by a recognised assessment body using related practical and written test items from item bank
Minimum required	spades, slashers, rakes, shovel, strings, wheelbarrow, forked
tools/ equipment/	hoe, mallet, dibber, axes, mattock, hole digger, tape measure,
implements or equivalent	pangas, hand hoes, files, watering can, personnel protective gears, green house netting, nursery bed trays,
-	
Minimum required materials and	polythene bags, strings, timber, grass, nails, fertilisers, chemicals, seeds, soil
consumables or	_ =====================================
equivalent	
Special notes	None

Code	UE/OPF/M1.2
Module title	M1.2: Establish Oil Palm Plantation
Related Qualification	Part of Uganda Vocational Qualification (Oil Palm Farmer UVQ 1)
Qualification Level	1
Module purpose	At the end of this module, a trainee shall be able to successfully setup an oil palm plantation.
Learning-Working	LWA 2/1: Prepare Seed Bed
Assignments (LWAs)	LWA 2/2: Transplant Seedlings
	LWA 2/3: Maintain Tools and Equipment
	LWA 2/4: Perform Occupational Health, Safety and Environmental Protection Practices
	Note:
	1. The learning exercises may be repeated until 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	LWA 2/1: Prepare Seed Bed
Exercises (PEXs)	PEX 1.1: Select site
	PEX 1.2: Select tools
	PEX 1.3: Clear land
	PEX 1.4: Till/Plough land
	PEX 1.5: Construct farm infrastructure
	PEX 1.6: Plot seedling spacing
	PEX 1.7: Dig holes
	PEX 1.8: Apply fertilisers
	LWA 2/2: Transplant Seedlings
	PEX 2.1: Select tools and equipment
	PEX 2.2: Select seedlings
	PEX 2.3: Trim roots PEX 2.4: Transport seedlings
	PEX 2.5: Remove potting materials
	PEX 2.6: Place seedlings in holes
	PEX 2.7: Cover base with soil
	PEX 2.8: Water seedlings
	PEX.2.9: Shade seedling

L	.WA	2/3:	Main	tain	Tools
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- PEX 3.1: Clean tools
- PEX 3.2: Sharpen tools
- PEX 3.3: Repair tools
- PEX 3.4: Disinfect tools
- PEX 3.5: Lubricate tools
- PEX 3.6: Sheath tools
- PEX 3.7: Store tools

LWA 2/4: Perform Occupational Health, Safety and **Environmental Protection Practices**

- PEX 4.1: Administer first aid
- PEX 4.2: Wear personnel protective gear
- PEX 4.3: Observe hygiene and sanitation
- PEX 4.4: Guide and counsel workers
- PEX 4.5: Sensitize workers on health issues
- PEX 4.6: Manage wastes
- PEX 4.7: Perform soil and water conservation measures
- PEX 4.8: Perform firefighting
- PEX 4.9: Observe regulations and policies
- PEX 4.10: Display safety signs

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:

- Seed bed preparation
- Transplanting oil palm seedlings
- Tools, materials and equipment used
- Planting
- Occupational health, safety and environmental protection practices
- Climatic changes
- Oil palm agronomy
- Soil fertility management
- Pest and disease control
- Weed control
- Soil and water conservation
- Record keeping
- Farm infrastructure and layout
- Waste management
- Regulations and policies of oil palm sector
- ICT skills
- Numeracy and literacy

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Average duration of learning	 200hours (25days) of nominal learning suggested to include: 05 days of occupational theory and 20 days of occupational practice
Suggestions on organisation 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 a recognised assessment body using related practical and written test items from item bank
Minimum required tools/ equipment/ implements or equivalent	spades, slashes, rake, wheelbarrow, forked hoe, dibber, axes, mower, mattock, hole diggers, hammer, hand hoe, measuring tape, pangas, strings, firefighting equipment, personnel protective gear, computer, tractors and ploughs, irrigation equipment,
Minimum required materials and consumables or equivalent	fertilisers, water, agro-chemicals, stationery
Special notes	None

Code	UE/OPF/M1.3
Module title	M1.3: Maintain Oil Palm Plantation
Related Qualification	Part of Uganda Vocational Qualification (Oil Palm Farmer UVQ 1)
Qualification Level	1
Module purpose	At the end of this module, a trainee shall be able to successfully manage Oil Palm Plantation
Learning-Working Assignments (LWAs)	LWA 3/1: Manage Oil Palm Plantation LWA 3/2: Protect Oil Palm Plants LWA 3/3: Perform Occupational Health Safety and Environmental Protection Practices
	Note: 1. The learning exercises may be repeated until 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 (PEXs)	LWA 3/1: Manage Oil Palm Plantation PEX 1.1: Plant cover crops PEX 1.2: Prune PEX 1.3: Irrigate PEX 1.4: Gap fill PEX 1.5: Apply fertilisers PEX 1.6: Maintain Farm infrastructure
	LWA 3/2: Protect Oil Palm Plants PEX 2.1: Select tools, materials and equipment PEX 2.2: Control pests PEX 2.3: Control diseases PEX 2.4: Control weeds
	LWA 3/3: Perform Occupational Health, Safety and Environmental Protection Practices PEX 3.1: Wear personnel protective gear PEX 3.2: Manage waste PEX 3.3: Administer first aid PEX 3.4: Sensitise workers on health issues PEX 3.5: Guide and counsel workers

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QUALIFICATION: LEVEL 1	September 2020
Occupational health and safety	PEX 3.6: Display safety signs PEX 3.7: Perform firefighting PEX 3.8: Conserve soil and water PEX 3.9: Observe regulations and policies PEX 3.10: Train workers on safety and environmental protection practices Precautions, rules and regulations on occupational health safety and environmental protection included in the listed related knowledge should be observed and demonstrated
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: Weeds and their control Diseases and their control Pests and their control Pruning Irrigation Soil and water conservation Establishment and use of cover crops Tools, materials and equipment Waste management Oil palm crop management practices Occupational health, safety and environmental practices Farm Infrastructure maintenance Soil fertility management
Average duration of learning	200 hours (25days) of nominal learning suggested to include: 05 days of occupational theory and 20 days of occupational practice
Suggestions on organisation 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 a recognised assessment body using related practical and written test items from item bank
Minimum required tools/ equipment/ implements or equivalent	chisel, panga, hoes, sickles, axes, knapsack sprayers, files, forked hoe, slashers, sharpening stone, mowers, pruning equipment, fertiliser applicators, tractors, plough, fire extinguishers, first aid kit, personnel protective gears

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Minimum required materials and consumables or equivalent Stationery, fertilisers, pesticides, water and stationery are required.	er, strings,

None

Special notes

Code	UE/OPF/M1.4
Module title	M1.4: Perform Harvest and Post-Harvest Handling Oil Palm
Related Qualification	Part of
	Uganda Vocational Qualification
	(Oil Palm Farmer UVQ 1)
Qualification Level	1
Module purpose	At the end of this module, a trainee shall be able to successfully perform harvest and post-harvest handling of Oil Palm produce.
Learning-Working	LWA 4/1: Harvest Oil Palm Produce
Assignments	LWA 4/2: Handle Harvested Produce
(LWAs)	LWA 4/3: Maintain Tools and Equipment
	LWA 4/4: Perform safety and Environmental Protection Practices
	Note:
	The learning exercises may be repeated until 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	LWA. 4/1: Harvest Oil Palm Produce
Exercises (PEXs)	PEX 1.1: Select tools and equipment
	PEX 1.2: Clear harvesting platform
	PEX 1.2: Identify ripe bunches
	PEX 1.3: Cut ripe bunches
	PEX 1.4: Collect bunches
	PEX 1.5: Sort bunches
	PEX 1.6: Collect leaves
	PEX 1.7: Pick fruits
	LWA 4/2: Handle Harvested Produce
	PEX 2.1: Sort kernels
	PEX 2.2: Pack kernels
	PEX 2.3: Weigh kernels
	PEX 2.4: Label kernels
	PEX 2.5: Take records
	PEX 2.6: Store kernels

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QUALIFICATION: LEVEL 1	September 2020
	LWA 4/3: Maintain Tools and Equipment
	PEX 3.2: Sharpen tools
	PEX 3.3: Clean tools
	PEX 3.4: Disinfect tools
	PEX 3.5: Repair tools
	PEX 3.6: Lubricate tools
	PEX 3.7: Paint tools
	LWA 4/4: Perform Occupational Health, Safety and Environment Protection Practices
	PEX 4.1 Wear personal protective gears
	PEX 4.2: Manage waste
	PEX 4.3: Administer first aid
	PEX 4.4: Sensitise workers on Health issues
	PEX 4.5: Guide and counsel workers
	PEX 4.6: Display safety signs
	PEX 4.7: Train workers on job hazards and Safety precautions
	PEX 4.8: Observe sanitation and hygiene
	PEX 4.9: Observe regulations and policies
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.
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: Maturity Indicators of the oil palm fruit. Measurements. Structure of oil palm tree/plants. Harvesting tools and equipment Generating production records
	 Seasonal calendar for oil palm Post-harvest handling process Storage management Handling tools, equipment Pest control Sanitation and hygiene Regulation and policies on oil palm industry Harvesting on oil palm

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	 Marketing skills Customer care Waste management Occupational health, safety and environmental protection practice ICT skills
Average duration of learning	 160hours (20 days) of nominal learning suggested to include: 05 days of occupational theory and 15 days of occupational practice
Suggestions on organisation 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
Minimum required tools/ equipment/ implements or equivalent	sickle, pangas, chisels, machetes, harvesting tools, sharpening tools, wheelbarrow, hooks/slakes, axe, transport facility, baskets, weighing scales, computers, phones, first aid kit, fire extinguishers, filling cabinets, calculator, personnel protective gear, spikes
Minimum required materials and consumables or equivalent	Stationery, sacks, agro chemicals, lubricants, paint
Special notes	None

Code	UE/OPF/M1.5
Module title	M1.5: Establish an Oil Palm Farming Enterprise
Related Qualification	Part of Uganda Vocational Qualification (Oil Palm Farmer UVQ 1)
Qualification Level	1
Module purpose	At the end of this module, a trainee shall be able to successfully perform basic entrepreneurial tasks
Learning-Working Assignments (LWAs)	LWA 5/1: Plan an Oil Palm Farming Enterprise LWA 5/2: Market Oil Palm Produce LWA 5/3: Perform Basic Administrative Tasks LWA 5/4: Generate Oil Palm Records
	LWA 5/5: Perform Occupational Health Safety and Environmental Protection Practices
	 Note: 1. The learning exercises may be repeated until 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 (PEXs)	LWA 5/1: Plan an Oil Palm Farming Enterprise PEX 1.1: Conduct a feasibility study PEX 1.2: Select farm site PEX 1.3: Determine oil palm variety PEX 1.4: Source for farm inputs PEX 1.5: Identify labour requirements PEX 1.6: Determine production methods PEX 1.7: Develop site structural plan PEX 1.8: Prepare financial plan PEX 1.9: Prepare budget PEX 1.10: Prepare procurement plan LWA 5/2: Market Oil Palm Produce
	PEX 2.1: Conduct market survey PEX 2.2: Brand produce PEX 2.3: Package produce PEX 2.4: Label produce

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QUALIFICATION: LEVEL 1	September 2020
	PEX 2.5: Price produce
	PEX 2.6: Advertise produce
	PEX 2.7: Take records
	PEX 2.8: Load produce
	PEX 2.9: Transport produce
	PEX 2.10: Offload produce
	PEX 2.11: Sell produce
	PEX 2.12: Communicate with customers
	LWA 5/3: Perform Basic Administrative Tasks
	PEX 3.1: Recruit workers
	PEX 3.2: Organise meetings
	PEX 3.3: Supervise workers
	PEX 3.4: Appraise workers
	PEX 3.5: Prepare financial reports
	PEX 3.6: Create external linkages
	PEX 3.7: Network with producers/stakeholders
	PEX 3.8: Train workers
	PEX 3.9: Formalise oil palm farming business
	LWA 5/4: Generate Oil Palm Farming Records
	PEX 4.1: Prepare production records
	PEX 4.2: Prepare labour records
	PEX 4.3: Prepare sales records
	PEX 4.4: Prepare financial records
	PEX 4.5: Prepare inventory records
	LWA 5/5: Perform Occupational Health, Safety and Environmental Practices
	PEX 5.1: Wear protective gear
	PEX 5.2: Dispose waste
	PEX 5.3: Administer first aid
	PEX 5.4: Sensitise workers on health issues
	PEX 5.5: Guide and counsel workers
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.
Pre-requisite modules	None

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QUALIFICATION: LEVEL 1	September 2020
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: Promotional techniques Types of packaging Price determination and pricing methods Market types Record keeping Risk management Report writing Communication skills Resource management Guidance and counselling
Average duration of learning	 160hours (20days) of nominal learning suggested to include: 05 days of occupational theory and 15 days of occupational practice
Suggestions on organisation 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 a recognised assessment body using related Practical and written Test Items from Item Bank
Minimum required tools/ equipment/ implements or equivalent	computers, phones, transport facility, first aid kit, projectors, filling cabinets, fire extinguishers, furniture
Minimum required materials and consumables or equivalent	water, electricity, stationery, sacks, record forms, the Internet facility
Special notes	None
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3.0 ATP-PART III

Assessment Instruments for an OIL PALM FARMER

- 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 developed 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) Test Items (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 trouble-shooting 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 an OIL PALM FARMERS are included.

3.9 Overview of Test Item Samples Included

No	Type of test Items	Numbers included
1	Written (Theory)- short answer	2
2.	Written (Theory)- multiple choice	2
3.	Written (Theory)- matching with generic	1
4.	Written (Theory)- matching with cause effect	1
5	Written(theory)- matching with work-sequence	1
6.	Performance (Practical) test items	1
	Total	8

WRITTEN TEST ITEMS (SAMPLES)

DIT/ QS	Writt		em Database ory) Test Item-	no. 1
Occupational Title:	Oil Palm Farmer			
Competence level:	Level 1			
Code no.				
	Short answer	√		
	Multiple choice			
Test Item type:	Matching item	Generi c	Cause- Effect	Work- sequence
Complexity level:	C1			
Date of OP:	September 2020			
Related modules:	M1.1			
Time allocation:	4 minutes			

Test Item	List any four materials used in preparation of oil palm nursery bed
Answer spaces	(i) (ii) (iii) (iv)
Expected key (answers)	(i) Grass (ii) Polythene bags (iii) Pesticides (iv) Crop boosters (v) Poles (vi) Nails (vii) Sisal/banana fibre (viii) Green house netting (ix) Water (x) Potting bags (xi) Growth media (xii) Soil

DIT/ QS	Wr		tem Database ory) Test Item	- no. 2
Occupational Title:	Oil Palm Farmer			
Competence level:	Level 1			
Code no.				
	Short answer	√		
	Multiple choice			
Test Item type:	Matching item	Generic	Cause- Effect	Work-sequence
Complexity level:	C1			
Date of OP:	September 2020			
Related modules:	M1.4			
Time allocation:	4 minutes			

Test Item	State four reasons why pruning is carried-out on an oil palm plantation
Answer spaces	(i) (ii) (iii) (iv)
Expected key (answers)	 (i) Increase light in the garden (ii) Reduce spread of pests and diseases (iii) For easy harvesting (iv) Reduce wastage of chemicals when spraying (v) Increase quality of oil palm (vi) Allow growth of vegetative parts (vii) Reduce potential of fire hazards (viii) Increase visibility and safety near drive ways or side walks (ix) Prevent damage to buildings and people during strong winds (x) To obtain raw materials for craft making

DIT/ QS	(Wi		tem Database ory) Test Item-	no. 03
Occupational Title:	Oil Palm Farmer			
Competence level:	Level 1			
Code no.				
	Short answer			
Took Itam tumo.	Multiple choice	√		
Test Item type:		Generic	Cause-Effect	Work-sequence
	Matching item			
Complexity level:	C2			
Date of OP:	September 2020			
Related Module:	M1.2			
Time allocation:	2 minutes			

Test Item	Oil palm can be categorised as a
Distractors and correct answer	A. Annual B. Biannual C. Perennial D. Polynomial

Key (answer)

DIT/ QS	Test Item Database Written (Theory) Test Item- no. 04			
Occupational Title:	Oil Palm Farmer			
Competence level:	Level 1			
Code no.				
	Short answer			
	Multiple choice	√		
Test Item type:		Generic	Cause-Effect	Work-sequence
	Matching item			
Complexity level:	C3			
Date of OP:	September 2020			
Related Module:	M1.4			
Time allocation:	5 minutes			

Test Item	An oil palm farmer was advised to apply 20Kgs of Nitrogen fertilisers in half an acre (1/2 acre) of oil palm garden. He bought a bag of NPK fertiliser with the ratio of 2:1:2. How many kgs of NPK fertilisers will be applied?
Distractors and correct answer	A. 100KgsB. 20KgsC. 50KgsD. 40Kgs

|--|

DIT/ QS	Test Item Database Written (Theory) Test Item- no. 05			
Occupational Title:	Oil Palm Farmer			
Qualification level:	Level 1			
Code no.				
T	Short answer			
	Multiple choice			
Test Item type:	Matching item	Generic	Cause- Effect	Work-sequence
		\checkmark		
Complexity level:	C1			
Date of OP:	September 2020			
Related tasks:	M1.4			
Time allocation:	4 minutes			

est Item Match the following tools with their functions.
--

Column (A)[tools]		
1	Machetes	
2	Bastard file	
3	Watering Can	
4	Hoe	

Column (B)[functions]		
Α	Sharpening	
В	Cleaning	
С	Levelling	
D	Irrigation	
Е	Harvesting	
F	Tilling	

Key (answer)	1:E, 2:A, 3:D,4:F
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DIT/ QS	Test Item Database Written (Theory) Test Item- no. 06			
Occupational Title:	Oil Palm Farmer			
Competence level:	Level1			
Code no.				
	Short answer			
-	Multiple choice			
Test Item type:	ype: Matching item	Generic	Cause- Effect	Work-sequence
			√	
Complexity level:	C3			
Date of OP:	September 2020			
Related Module:	M1.3			
Time allocation:	4 minutes			

Column (A) (conditions)		
Α	Low fruit yield	
В	Wilting of seedlings	
С	Low plant population	
D	Soil erosion	
Е	High pest population	

Column (B) (Causes)		
1	No gap filling	
2	No cover crops planted	
3	Dense weed growth	
4	Fluctuating prices	
5	Low soil moisture content	
6	Poor soil fertility	
7	Lack of pruning	
8	Low herbicide use	

Key (answer)	A-6, B-5, C-1, D-2, E-3
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DIT/ QS	Test Item Database Written (Theory) Test Item- no. 07			
Occupational Title:	Oil Palm Farmer			
Competence level:	Level 1			
Code no.				
	Short answer			
	Multiple choice			
Test Item type:	Matching item	Generic	Cause- Effect	Work- sequence
				V
Complexity level:	C2			
Date of OP:	September2020			
Related Module:	M1.1			
Time allocation:	2 minutes			

Test Item	Arrange the steps followed when setting an oil palm nursery bed
rest item	in their chronological order

Column A (Chronology)	Column B (work steps) in wrong chronological order	
1 st	Α	Align pots
2 nd	В	Pot soil
3 rd	С	Select growth media
4 th	D	Mix fertilisers
5 th	Е	Sterilise soil
6 th	F	Place seeds in pots
7 th	G	Select tools and equipment
8 th	Н	Wear protective gear

Key (answer)	1-H,2-G,3-C,4-E,5-D,6-B,7-F,8-A
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PERFORMANCE TEST ITEMS (SAMPLES)

DIT/ QS	Test Item Database Performance Test Item - No:09	
Occupational Title:	Oil Palm farmer	
Competence level:	1	
Code no.		
Test Item:	Establish a primary nursery bed for oil palm of 2mx4m	
Complexity level:	P2	
Date of OP:	September 2020	
Related Module:	M1	
Related skills and knowledge:	Constructing a nursery, measuring, potting, selecting and using tools, growth requirements of oil palm seeds, qualities of a good nursery, qualities of a good oil palm seed, environmental and safety practices, administering first aid, management of seedlings, quality of good seedlings, mixing growth media, ratios of growth media, selecting suitable site	
Required tools, materials and equipment:	Polythene bags, water, fertilisers, watering can, wheelbarrow garden trowel, sterilised soil, sand, seeds, shovel, hand hoe spade, poles, cover material, protective gear, harmer, nails, tape measure, sisal string, tri-square, disinfectant, weighing scale grass, green house netting	
Time allocation:	6 Hours	
Preferred venue:	At the Farm	
Remarks for candidates	 Follow environmental and safety precautions No extra material will be provided 	
Remarks for assessors	 Provide required materials, tools and equipment Farm manager should be available 	

ш	Accommont suitania	Coording models	Max. Score	
#	Assessment criteria	Scoring guide	Process	Result
1	Preparation before task	Wore protective gear - Overall - Gumboot - Face mask		4
		- Gloves		1
		Selected mixing area		1
		Cleared area		1
		Gathered tools, equipment and materials		2
		Cleaned tools and equipment		2
		Tested equipment	2	
		Selected tools and equipment		2
		Selected fertilisers	2	
		Fertilisers free of contaminants observed		2
		Measured fertilisers	2	
		Proper measurements verified		2
		Selected sterilised soil	2	
		Selected clean water		1
		Selected nursery site	2	
		Fairly flat site observed		1
		Demarcated area	2	
		Measurements of 2mx4m verified		2
		Heaped soil and manure		1
		Prepared potting bags	3	
		Holes in potting bags observed		1
		Disinfected tools	2	

#	Assessment criteria	Scoring guide		ore
#	Assessment criteria	Scoring guide	Process	Result
2	Mixing growth media	Measured soil	2	
		Measured sand	2	
		Measured manure	2	
		Measured artificial fertilisers correct growth media ratios observed	2	2
		Heaped materials		1
				'
		Mixed growth media	3	
		Uniform growth media observed		3
3	Potting growth media	Opened potting bags		1
		Filled bags with growth media	2	
		No space in bags observed		2
		Compacted growth media	1	
		Well compacted pot observed	1	1
		Watered pots Wetted growth media observed	1	
				1
4	Establishing nursery	Measured nursery bed areas	3	
	shade	Dug holes	3	
		Measured poles	3	
		Cut poles		
		Well cut poles observed	2	1
		Constructed shelter	4	

#	Assessment criteria	Scoring guide	Max. Score	
#	Assessment Criteria	Scoring guide	Process	Result
		Shelter able to cover the nursery observed		2
		Covered shelter	2	
		No holes in shelters observed		1
		Established a fence	4	
		Well aligned fence observed		2
5	Planting seeds	Made holes in pots	2	
		Placed seeds in pots	2	
		Covered seeds		1
		Compacted soil		1
		Watered pots		1
		Placed planted pots under shade	2	
		Well-spaced pots observed		2
6	Post planting	Managed wastes		3
		Cleaned tools and equipment	3	
		No stains on tools and equipment observed		1
		Cleaned working area		2
		Stored tools and equipment		1
		Stored materials		1
		Removed protective gear		2
		Stored protective gear		1
		Recorded data		4
	TOTAL (Y)	Process + Results	62	59
M	AXIMUM SCORE	(X/Y) x 100	12	21

4.0 ATP-PART IV

INFORMATION ON DEVELOPMENT PROCESS

4.1 Occupational Profile Developed (September 2020)

The Occupational Profile was exclusively developed by job practitioners who were working in the Oil Palm Farmer 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 Developed (September 2020)

Based on the <u>Occupational Profile</u> for an Oil Palm Farmer of September, 2020, Training Modules were developed by job practitioners, guided by UVQF Facilitators.

4.3 Test Item development (September 2020)

Based on the <u>Occupational Profile</u> for an Oil Palm Farmer of September 2020, 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 Panels

The participating panels of job practitioners required at different stages were constituted by members from the following organisations:

	Development Panel				
No.	Name	Institution/Organisation			
1.	Muyanja Gerald	NCDC			
2.	Mugeere Matia	Farmer			
3.	Okello Richard Adolo	NCDC			
4.	Kirigwjjo Anthony	Sir Apollo Kaggwa SS – Mukono			
5.	Musolooza Leonard	Farmer			
6.	Lubega Sunday Ronald	Farmer			
7.	Mukasa Godfrey	Farmer			
8.	Loumo David	Kololo S.S. S			
9.	Mugumira Charles	Kalangala Oil Palm Growers Trust			
10.	Nkonge Anatoli	Farmer			
11.	Mugasho Rose	City High School			

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. Facilitators: (Occupational Profile developed), Ms. Nakyobe Safinah,

Ms. Nalwanga Phionah,

Ms. Mushabenta Brendah

Ms. Mukyala Ruth Ag.DD/ DIT.

3. **DIT Data Entrant:** Ms. Nalwanga Phionah Mr.

Matovu Javiira

Mr. Ganafa Roland

Ms. Babirye Annet

4. Compiled by: Ms. Nalwanga Phionah

5. **Edited by:** Ms. Mukyala Ruth Ag. DD, DIT, Qualification Standards

Dept. DIT

6. Coordinated by: Mr. Byakatonda Patrick, Ag. Director, DIT and

Ms. Mukyala Ruth Ag. DD, DIT, Qualification Standards

Dept. DIT

4.7 Reference time:

The Assessment and Training Package was developed in September- 2020 and may be periodically revised to match the dynamic trends in the occupation and hence issued in different versions.

References:

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