



Technical, Entrepreneurship and Vocational Education and Training Authority (TEVETA)

GENERAL AGRICULTURE TRADE TEST LEVEL 1

Record of Practical Assessment

Learner`s Name:_____

Learner`s NRC no.:_____

Learner`s TEVETA No.:_____

Institution Name:_____

Institution TVA No.:_____

Assessment Period:_____

PREFACE

The Technical Education, Vocational and Entrepreneurship Training Authority (TEVETA) is an institution created under the Technical Education, Vocational and Entrepreneurship Training Act Number 13 of 1998, as amended by the Technical Education, Vocational and Entrepreneurship Training (Amendment) Act Number 11 of 2005.

The Act among other things provides that TEVETA shall:

- (a) regulate and conduct national examinations and assessments relating to technical education, vocational and entrepreneurship training;
- (b) charge and collect fees in respect of examinations, assessments and other services provided by the Authority;
- (c) award certificates to persons who succeed in examinations and assessments undertaken under this Act
- (d) do all such things connected with or incidental to the functions of the Authority under this Act.

Through this mandate, the Assessment and Qualifications Division of TEVETA has developed Practical Assessment Tool Kits to enable learners achieve the competences that are congruent with the demand of the workplace tasks. These tool kits in part are also intended to ensure that similar conditions under which all students in TEVET are assessed and examined apply wherever the course is undertaken in Zambia.

The Trainers shall work with the Learners to collect evidence of competence, using the benchmarks provided by the unit standards. During the year, the Learners shall be required to undertake a series of practical assessment tasks. It is the sum of all these assessments tasks that deems a Learner to be competent (or not).

This approach to assessment is not a one-off event but one that gives learners many opportunities to demonstrate skill and allow for the capturing and recording of these demonstrations.

For the Learner to be deemed competent, they must demonstrate competency in every aspect of the practical tasks being undertaken. It must however be understood by the Trainer that Competency does not mean expert. It means that the candidate has attained sufficient skill and knowledge to perform the activity or service to a degree and quality that is acceptable to the industry and the customer in a time within which a competent person at the level could reasonably be expected to perform the task.

While this will be undertaken at institutional level, it is therefore envisaged that the Assessment principles of VALIDITY, RELIABILITY, FAIRENESS and FLEXIBILITY shall at all times be adhered to.

Pre - Assessment

Assessment process explained to the Trainee (✓ if Yes).	☐
Any appeal relating to the outcome of the assessment or the way in which the assessment was conducted shall be made through the TEVETA <i><u>fair treatment policy</u></i> as explained to the Trainee (✓ if Yes).	☐

Learner/Trainee Learner/Trainee name: (Print) Learner/Trainee comments:	Assessor/Examiner Assessor/Examiner name: (Print) Assessor/Examiner comments:
I fully understand the assessment and appeals process.	Theory assessment sighted and checked as satisfactory. ☐
Signature: Date:	Signature: Date:

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TASK 1: IDENTIFICATION, USE AND MAINTENANCE OF BASIC GARDEN TOOLS

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the basic garden tools, this should include: • Hand hoe • Rake, • Garden fork • Hand fork • Hand trowel • Shovel • Spade, • Slasher • Axe • Watering can • Measuring tape • Garden line	☐	☐	☐	☐	☐	☐
	(b) demonstrate effective use of basic garden tools • Hand hoe • Rake • Garden fork • Hand fork • Hand trowel • Shovel • Spade • Slasher • Axe • Watering can • Measuring tape • Garden	☐	☐	☐	☐	☐	☐
	(c) Carry out correct maintenance practices, referred to the tools in (b), this should include: • Oiling the tools • Washing tools • Sharpening tools • Proper storage	☐	☐	☐	☐	☐	☐

Examiner's comments:

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Examiner Name/Sign:

Learner's Name/sign:

Date:

Date:

TASK 2: IDENTIFICATION USE AND MAINTENANCE OF THE KNAPSACK SPRAYER

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) identify the tools and materials to use in spraying - knapsack sprayer - pesticide - water	☐	☐	☐	☐	☐	☐
	(b) Identify the parts of the sprayer, this should include: - Handle (belts) - Nozzle - Trigger - Hand pump - Seal - Tank - Compressor - Delivering tube/pipe - Lancer	☐	☐	☐	☐	☐	☐
	(c) Dismantling and assembling of the knapsack sprayer correctly refer to the parts in (b)	☐	☐	☐	☐	☐	☐
	(d) effective use of the knapsack sprayer (refer to (a) above) this should include: spraying pesticide	☐	☐	☐	☐	☐	☐
	(e) maintenance of the sprayer, this should include: - washing thoroughly - proper handling - proper storage - replacement of worn out parts - replacement of broken parts	☐	☐	☐	☐	☐	☐

Examiner's comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 3: GENERAL NURSERY PREPARATION FOR VEGETABLES

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in preparation, this should include: ▪ Hand hoes ▪ Measuring tape ▪ Garden line ▪ pegs ▪ Hand fork ▪ Watering can ▪ Mulching materials ▪ Vegetable seeds ▪ Fertilizers (organic or inorganic) ▪ Rake	☐	☐	☐	☐	☐	☐
	(b) Prepare nursery plot for vegetables with the following dimensions 1.2m × 10m, this should include: ▪ clearing ▪ Tilling ▪ Harrowing ▪ Bed marking ▪ Bed making ▪ Sowing ▪ Mulching ▪ Watering	☐	☐	☐	☐	☐	☐

Examiner's comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 4: VEGETABLE BED MAKING

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in vegetable bed making, this should include: ▪ Hand hoes ▪ Measuring tape ▪ Garden line ▪ Pegs/stakes ▪ Rake	☐	☐	☐	☐	☐	☐
	(b) Make vegetable beds in the garden, this should include ▪ clearing ▪ tilling ▪ Harrowing ▪ Measuring ▪ Pegging ▪ Aligning the edges of the bed ▪ Levelling	☐	☐	☐	☐	☐	☐

Examiner's comments:

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Examiner Name/Sign:

Learner's Name/sign:

Date:

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TASK 5: GROWING TOMATO

No	Activity						
		Satisfactory			Not satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials required for growing tomato, this should include: ▪ Axe/ matchet/panga ▪ Ball of String ▪ Knife ▪ Measuring tape ▪ Hand hoes ▪ Garden line ▪ Hand fork ▪ Watering can ▪ Stakes ▪ Tomato seeds ▪ Mulching materials ▪ insecticide ▪ herbicides ▪ fungicides ▪ Compost/manure ▪ Basal fertilizer ▪ Top dressing fertilizer ▪ Garden trowel ▪ Rake	☐	☐	☐	☐	☐	☐
	(b) Prepare nursery plot with the following dimensions 0.5m × 0.5m, this should include: • Measuring • Tilling • Harrowing • Bed making • Sowing • Watering						
	(c) Prepare the main bed with the following dimensions 1.2m × 10m, this should include: • Measuring • Tilling • Harrowing • Bed making • manuring • Watering	☐	☐	☐	☐	☐	☐

	(d) Transplant tomato seedlings, this should include: ▪ Watering ▪ Seedling lifting ▪ Planting ▪ Application of fertilizer	☐	☐	☐	☐	☐	☐
	(e) Carry out tomato management practices, this include: ▪ weeding ▪ Gapping ▪ Pruning ▪ Staking/trelling ▪ Controlling diseases and pests	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 6: GROWING CABBAGE

No	Activity						
		Satisfactory			Not satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(f) Identify the tools and materials required for growing cabbage, this should include: ▪ Axe/ matchet/panga ▪ Measuring tape ▪ Hand hoes ▪ Garden line ▪ Hand fork ▪ Garden trowel ▪ Rake ▪ Watering can/horse pipe ▪ cabbage seeds ▪ Mulching materials ▪ insecticide ▪ herbicides ▪ fungicides ▪ Compost/manure ▪ Basal fertilizer ▪ Top dressing fertilizer	☐	☐	☐	☐	☐	☐
	(g) Prepare nursery plot with the following dimensions 0.5m × 0.5m, this should include: • Measuring • Tilling • Harrowing • Bed making • Sowing • Watering	☐	☐	☐	☐	☐	☐
	(h) Prepare the main bed with the following dimensions 1.2m × 10m, this should include: • Measuring • Tilling • Harrowing • Bed making • manuring • Watering						
	(i) Transplant cabbage seedlings, this should include: ▪ Watering ▪ Seedling lifting ▪ Planting	☐	☐	☐	☐	☐	☐

	Application of fertilizer						
	(j) Carry out tomato management practices, this include: - weeding - Gapping - Controlling diseases and pests	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner`s Name/sign:

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TASK 7: CITRUS NURSERY PREPARATION

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in nursery preparation for citrus, this should include: • Hoes • Watering can/Horse pipe • fertilizer (basal) • Lemon seeds • Measuring tape • Mulching material • Polythene pots • Compost/manure • Shovel • Wheelbarrow	☐	☐	☐	☐	☐	☐
	(b) sowing of lemon seeds in polythene pots, this should include: • Soil collection • Mixing of soil with manure/compost • potting • sowing • mulching • watering	☐	☐	☐	☐	☐	☐

Examiner's comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 8: BUDDING IN CITRUS PLANTS

No	Activity	Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in budding citrus plants, this should include: ▪ Lemon seedlings in polypots ▪ Budding knife ▪ Wrapper ▪ Secateurs ▪ Bud wood	☐	☐	☐	☐	☐	☐
	(b) bud on lemon seedlings, this should include: ▪ cutting the vertical and horizontal lines on the seedling ▪ placing the bud ▪ wrapping	☐	☐	☐	☐	☐	☐

Examiner's comments:

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Examiner Name/Sign:

Learner's Name/sign:

Date:

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TASK 9: DRUG ADMINISTRATION THROUGH INTRA - MUSCULAR INJECTION METHOD

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in drug administration through intra – muscular injection method, this should include: ▪ Syringe ▪ Needles ▪ Water in a bottle representing any antibiotic ▪ Cotton wool ▪ Methylated spirit or any disinfectant ▪ Cattle/goat	☐	☐	☐	☐	☐	☐
	(b) administer the drug, this should include: ▪ Restraining the animal ▪ Disinfecting injection site ▪ Drug preparation ▪ Injecting the animal	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 10: EARTHEN FISH POND DEMARCATION

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in earthen fish pond demarcation, this should include: - Measuring tape - Garden line - Axe - Pegs/ stakes	☐	☐	☐	☐	☐	☐
	(b) Demarcate the earthen fish pond, this should include: - Measuring - Marking out - Pegging	☐	☐	☐	☐	☐	☐

Examiner's comments:

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Examiner Name/Sign:

Learner's Name/sign:

Date:

Date:

TASK 11: SEX IDENTIFICATION IN FISH

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in determining the sex of the fish, this should include: - Male fish - Female fish - Gloves	☐	☐	☐	☐	☐	☐
	(b) Determine the sex in fish, this should include: - Holding the fish - Observing the genital papillae	☐	☐	☐	☐	☐	☐

Examiner's comments:

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Examiner Name/Sign:

Learner's Name/sign:

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TASK 12: IDENTIFICATION OF FISH SPECIES COMMONLY CULTURED IN ZAMBIA

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Naming of the common fish species which are cultured in Zambia, this should include: ▪ Tilapia rendalli ▪ Green headed bream ▪ Three spotted bream ▪ Cat fish	☐	☐	☐	☐	☐	☐
	(b) Identify the prominent features of the fish species cultured in Zambia: ▪ Tilapia rendalli ▪ Green headed bream ▪ Three spotted bream ▪ Cat fish	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

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TASK 13: ATTACHING THE ADP IMPLEMENTS TO WORK OXEN

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in attaching the ADP implements to work oxen, this should include: ▪ Rope ▪ Pair of work oxen ▪ Yoke ▪ Trek chain ▪ Strope ▪ Skel ▪ Any ADP implements	☐	☐	☐	☐	☐	☐
	(b) Attach the ADP implements to work oxen, this should include: ▪ Fitting the skeis into the yoke ▪ Fitting the stropes ▪ Attach the animals to the yoke ▪ Attach the ADP implements to the trek chain	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date

TASK 14: IDENTIFICATION OF HORIZONS IN A SOIL PROFILE

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials used in digging the pit for horizon identification, this should include: - Hoe/spade - Axe - Shovel - Pick/mattock - Measuring tape - Pegs	☐	☐	☐	☐	☐	☐
	(b) Dig the pit with dimensions of 1m ×1m and depth 2m, this should include: - Measuring - Pegging - Digging	☐	☐	☐	☐	☐	☐
	(c) Identify the horizons in the soil profile, this should include: - observation - distinguishing horizons	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 15: MILKING A GOAT/COW

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in milking a goat, this should include: ▪ Bucket ▪ Animal (goat/cow) ▪ Rope ▪ Feed ▪ Test cup ▪ Mutton cloth ▪ Milking salve (teat lubricating cream)	☐	☐	☐	☐	☐	☐
	(b) milk a goat/cow, this should include: ▪ feeding ▪ Tying of legs ▪ Udder Washing ▪ Mastitis testing	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 16: TRANSPLANTING FRUIT TREE SEEDLINGS

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in transplanting fruit tree seedlings, this should include: ▪ Hand hoe/spade ▪ Measuring tape ▪ Axe ▪ Pegs ▪ Watering can ▪ Manure ▪ D –compound ▪ Decomposed manure/compost ▪ Shovel ▪ Fruit Tree seedling ▪ Garden line ▪ Razor blade/knife ▪ Mulching materials	☐	☐	☐	☐	☐	☐
	(b) prepare a hole for planting fruit tree seedlings with the following dimensions 60cm× 60cm × 60cm, this should include ▪ measuring ▪ digging ▪ mixing the soil and manure/compost	☐	☐	☐	☐	☐	☐
	(c) Demonstrated correctly transplanting of fruit tree seedlings, this should include ▪ Refilling ▪ planting ▪ Mulching ▪ watering	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner's Name/sign:

Date:

Date:

TASK 17: TESTING THE SOIL FOR THE SUITABILITY OF EARTHEN POND CONSTRUCTION USING SQUEEZING OR BALL TEST METHOD

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in soil testing for suitability of earthen pond construction, this should include: ▪ Hand hoe/spade ▪ Dish of water ▪ Spade ▪ Piece of land	☐	☐	☐	☐	☐	☐
	(b) Determine the suitability of earthen fish pond construction, this should include: ▪ loosening the soil ▪ Pouring the water ▪ Moistening ▪ Ball making ▪ squeezing	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 18: MAIZE PLANTING

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in maize planting, this should include: ▪ Hand hoe ▪ Maize seed ▪ Basal fertilizer (i.e 'D' Compound) ▪ Measuring cup/bottle top ▪ Measuring tape ▪ Pegs ▪ Garden line	☐	☐	☐	☐	☐	☐
	(b) Prepare a portion of land measuring 2×10m for maize planting, this should include ▪ Measuring ▪ Tilling ▪ Harrowing ▪ Inter-row and intra-row marking	☐	☐	☐	☐	☐	☐
	(c) Plant / sow maize , this should include ▪ Planting holes / stations ▪ Fertilizer application ▪ Placing of seeds ▪ burying the seeds	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 19: SPRAYING ANIMALS TO CONTROL ECTOPARASITES

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to be used in spraying animal to control ectoparasites, this should include: ▪ Cattle/Goat/sheep ▪ Crush pen ▪ sprayer ▪ Acaricide ▪ Clean water	☐	☐	☐	☐	☐	☐
	(b) Spray the animal, this should include: ▪ Estimating the right amount of acaricide ▪ Adding acaricide into the sprayer ▪ Filling the sprayer with water ▪ Stirring ▪ Spraying the animal	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date

TASK 20: PRESERVATION OF FISH USING SMOKING METHOD

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the equipment, tools and materials to be used in preservation of fish using smoking method, this should include: ▪ bucket ▪ fire wood/charcoal ▪ knife ▪ dish ▪ wire gauze ▪ oven ▪ matches	☐	☐	☐	☐	☐	☐
	(b) Preserve fish by smoking, this should include: ▪ Starting the fire ▪ Washing the fish ▪ scaling ▪ gutting ▪ Smoking	☐	☐	☐	☐	☐	☐

Examiner's comments:

Signed:

Examiner Name/Sign:

Learner's Name/sign:

Date:

Date:

TASK 21: BANANA PLANTING

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials used when planting bananas, this should include: ▪ Banana Sucker ▪ Hand hoe/spade ▪ shovel ▪ Knife ▪ Nematicide ▪ insecticide ▪ fungicide ▪ container of water ▪ Measuring tape ▪ Well-rotted compost/ manure ▪ Basal fertilizer ('D' compound or phosphate)	☐	☐	☐	☐	☐	☐
	(b) Plant the banana sucker, this should include: ▪ Trimming ▪ Application of pesticides ▪ Rinsing in the sun ▪ Digging the planting hole ▪ Mixing the soil with compost/manure ▪ planting ▪ mulching ▪ watering	☐	☐	☐	☐	☐	☐

Examiner`s comments:

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Examiner Name/Sign:

Learner's Name/sign:

Date:

Date:

TASK 22: BROODER PREPARATION

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the equipment, tools and materials to use in brooder preparation, this should include: ▪ Brooder guard ▪ Litter ▪ Drinkers ▪ Feeders ▪ Source of heat ▪ Newspapers ▪ Thermometer ▪ Canopy ▪ Disinfectant	☐	☐	☐	☐	☐	☐
	(b) Prepare the brooder, this should include: ▪ Disinfecting ▪ Setting up brooder guard ▪ Putting litter ▪ Laying newspapers ▪ Mounting the canopy ▪ Placing the heat source ▪ Placing the feeders and drinkers ▪ positioning the thermometer	☐	☐	☐	☐	☐	☐

Examiner's comments:

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Examiner Name/Sign:

Learner's Name/sign:

Date:

Date:

TASK 23: IDENTIFICATION OF PARTS OF AN OX - DRAWN PLANTER AND THE USE

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the equipment and materials, this should be: ▪ Ox - drawn planter ▪ Work oxen ▪ Trek chain ▪ Piece of land ▪ Fertilizer ▪ Seed i.e maize, soya bean	☐	☐	☐	☐	☐	☐
	(b) Identify the parts of the ox- drawn planter, this should include: ▪ Fertilizer hopper ▪ Seed hopper ▪ Seed delivery tube ▪ Fertilizer hopper ▪ Press wheel ▪ Furrow opener ▪ Seed plates ▪ Handles	☐	☐	☐	☐	☐	☐
	(c) Use the ox – drawn planter to sow seed and apply fertilizer, this should include: ▪ Placing seed in the seed hopper ▪ Placing fertilizer in the fertilizer hopper ▪ Attaching the work oxen to the planter ▪ Sowing and applying fertilizer	☐	☐	☐	☐	☐	☐

Examiner`s comments:

Signed:

Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 24: IDENTIFICATION OF THE PARTS OF AN OXEN DRAWN MOULDBOARD PLOUGH AND USE

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tool, this should be: ▪ Ox – drawn Mouldboard plough ▪ Work oxen ▪ Piece of land ▪ Set of spanners ▪ Yoke ▪ Trek chain	☐	☐	☐	☐	☐	☐
	(b) Identify the parts of the oxen, this should include: ▪ Handles ▪ Spreader ▪ Regulator ▪ Landside ▪ Share ▪ Steading wheel ▪ Hitch point ▪ Mouldboard ▪ Beam ▪ Frog	☐	☐	☐	☐	☐	☐
	(c) Carry out ploughing using ox- drawn Mouldboard plough, this should include: ▪ Attaching work oxen to the plough ▪ Adjusting the depth of ploughing ▪ Adjusting the width of furrow slice ▪ ploughing	☐	☐	☐	☐	☐	☐

Examiner's comments:

Signed:

Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 25: TESTING THE SOIL PH

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to use in testing the soil pH, this should include: ▪ Distilled water ▪ Beaker ▪ Blue litmus paper ▪ Red litmus paper ▪ Sample of soil ▪ Test tubes	☐	☐	☐	☐	☐	☐
	(b) Test the soil pH, this should include: ▪ Collecting soil samples ▪ Putting the soil samples into the test tubes ▪ Adding distilled water ▪ Shaking ▪ Dipping litmus paper ▪ Observing colour change of the litmus papers ▪ Determining the pH of the sample	☐	☐	☐	☐	☐	☐

Examiner`s comments:

Signed:

Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 26: METHODS OF FERTILIZER APPLICATION

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to use in fertilizer application, this should include: ▪ Knapsack sprayer ▪ Bucket/watering can ▪ Basal fertilizer ▪ Rope ▪ Pegs ▪ Foliar fertilizer ▪ 2Water ▪ Stick/rod/small hoe	☐	☐	☐	☐	☐	☐
	(b) Carry out the methods of applying fertilizer, this should include: ▪ Foliar ▪ Placement ▪ Broadcasting ▪ Drilling	☐	☐	☐	☐	☐	☐

Examiner`s comments:

Signed:

Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 27: MAKING A SEINE NET

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the materials, this should include: ▪ Rope, ▪ Floaters, ▪ Sinkers ▪ Netting material ▪ String ▪ Sewing needle	☐	☐	☐	☐	☐	☐
	(b) Make a seine net, this should include: ▪ Tying the ropes ▪ Marking the ropes ▪ Stretching the netting ▪ Sawing ▪ Attaching the sinkers ▪ Tying the floaters	☐	☐	☐	☐	☐	☐

Examiner`s comments:

Signed:

Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 28: DRENCHING /DOSING RUMINANT ANIMALS USING A DRENCHING GUN

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to use drenching ruminant animals using bottle/drenching gun, this should include: ▪ Drenching /dosing gun/bottle ▪ Bottle with narrow neck ▪ Drugs	☐	☐	☐	☐	☐	☐
	(b) Carry out drenching a ruminant animal using a drenching gun, this should include: ▪ Restraining the animal ▪ Raising the head of an animal ▪ Handling of the bottle /drenching gun ▪ Administering the drug	☐	☐	☐	☐	☐	☐

Examiner`s comments:

Signed:

Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

TASK 29: INTEGRATED FISH FARMING (FISH AND DUCK)

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the materials to use in integrated fish farming, this should include: ▪ Catfish or any of the cultured breams ▪ Ducks ▪ Stocked fish pond	☐	☐	☐	☐	☐	☐
	(b) Integrate fish farming with ducks, this should include: ▪ Allowing ducks access to the pond	☐	☐	☐	☐	☐	☐

Examiner's comments:

Signed:

Examiner Name/Sign:

Learner's Name/sign:

Date:

Date:

TASK 30: LAND PREPARATION AND PLANTING OF GROUNDNUTS

No	Activity						
		Satisfactory			Not Satisfactory		
		1	2	3	1	2	3
During observation of work activities, the candidates demonstrated that they can:							
	(a) Identify the tools and materials to use in planting groundnuts, this should include: ▪ Groundnut seed ▪ Hand hoe ▪ Measuring tape ▪ Garden line ▪ Rake ▪ Axe ▪ Pegs/stakes	☐	☐	☐	☐	☐	☐
	(b) Prepare a portion with the following dimensions 2m×10m, this should include: ▪ Clearing the piece of land ▪ Tilling the land ▪ Harrowing	☐	☐	☐	☐	☐	☐
	(c) Carry out planting of groundnuts, this should include: ▪ Marking the inter-row spacing ▪ Making planting holes ▪ Placing the seed ▪ Burying the holes	☐	☐	☐	☐	☐	☐
	(d) Carry out groundnut management practices, this include: ▪ weeding ▪ Gapping ▪ Controlling diseases and pests	☐	☐	☐	☐	☐	☐

Examiner`s comments:

Signed:

Examiner Name/Sign:

Learner`s Name/sign:

Date:

Date:

FINAL PRACTICAL ASSESSMENT SUMMARY

Practical assessment summary		Satisfactory	Not Satisfactory
1.	IDENTIFICACATION, USE AND MAINTANENCE OF BASIC GARDEN TOOLS	☐	☐
2.	IDENTIFYING THE PARTS, FUNCTIONS AND MAINTENANCE OF SPRAYER	☐	☐
3.	GENERAL NURSERY PREPARATION FOR VEGETABLES	☐	☐
4.	VEGETABLE BED MAKING	☐	☐
5.	GROWING TOMATO	☐	☐
6.	GROWING CABBAGE	☐	☐
7.	CITRUS NURSERY PREPARATION	☐	☐
8.	BUDDING IN CITRUS	☐	☐
9.	DRUG ADIMINISTION THROUGH INTRA-MUSCULAR INJECTION METHOD	☐	☐
10.	EARTHEN FISH POND DEMARCATON	☐	☐
11.	SEX IDENTIFICATION IN FISH	☐	☐
12.	IDENTIFICATION OF FISH SPECIES CULTURED IN ZAMBIA	☐	☐
13.	ATTACHING THE ADP IMPLEMENT TO THE	☐	☐

	WORK OXEN		
14.	IDENTIFYING OF HORIZONS IN SOIL PROFILE	☐	☐
15.	MILKING A COW/GOAT	☐	☐
16.	TRANSPLANTING FRUIT TREE SEEDLINGS	☐	☐
17.	TESTING THE SOIL FOR SUITABILITY OF EARTHEN POND CONSTRUCTION	☐	☐
18.	MAIZE PLANTING	☐	☐
19.	SPRAYING THE ANIMAL TO CONTROL ECTOPARASITES	☐	☐
20.	PRESERVATION OF FISH USING SMOKING METHOD	☐	☐
21.	BANANA PLANTING	☐	☐
22.	BROODER PREPARATION	☐	☐
23.	IDENTIFYING THE PARTS OF THE OX – DRAWN PLANTER AND USE	☐	☐
24.	IDENTIFYING THE PARTS OF AN OX – DRAWN MOULD BOARD PLOUGH	☐	☐
25.	TESTING THE SOIL PH	☐	☐
26.	METHODS OF FERTILIZER APPLICATION	☐	☐
27.	MAKING A SEINE NET	☐	☐

ASSESSMENT OUTCOME

Competent ☐Not Competent ☐

Learner/Trainee	Assessor/Examiner
Learner/Trainee name: _____ (Print)	Assessor/Examiner name: _____ (Print)
Learner/Trainee comments:	Assessor/Examiner comments:
Signature: _____ Date: _____	Signature: _____ Date: _____

VALIDATION OF THE ASSESSMENT

NAME:.....

DATE:.....

POSITION: **PRINCIPAL/HEAD OF INSTITUTION**

SIGNATURE:.....

NAME INSTITUTION:.....

STAMP:

