FARM SUPERVISOR

CBT Curriculum

National Vocational Certificate Level 4

Version 1 - November 2015















Published by

National Vocational and Technical Training Commission Government of Pakistan

Headquarter

Plot 38, Kirthar Road, Sector H-9/4, Islamabad, Pakistan www.navttc.org

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Layout & design

SAP Communications

Photo Credits

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This document has been produced with the technical assistance of the TVET Reform Support Programme, which is funded by the European Union, the Embassy of the Kingdom of the Netherlands, the Federal Republic of Germany and the Royal Norwegian Embassy and has been commissioned by the German Federal Ministry for Economic Cooperation and Development (BMZ). The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH in close collaboration with the National Vocational and Technical Training Commission (NAVTTC) as well as provincial Technical Education and Vocational Training Authorities (TEVTAs), Punjab Vocational Training Council (PVTC), Qualification Awarding Bodies (QABs)s and private sector organizations.

Document Version November, 2015 Islamabad, Pakistan

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TABLE OF CONTENTS

1. INTRODUCTION	3
2. OVEVIEW ABOUT THE PROGRAM- CURRICULUM FOR AGRICULTURE FARM SUPERVISOR	7
3. AGRICULTURE FARM MANAGEMENT CURRICULUM CONTENTS (Teaching and Learning Guide)	
3.2 Module 2: Maintain Farm Records	12
3.3 Module 3: Perform Market Survey	15
3.4 Module 4: Conduct farm operations	16
3.5 Module 5: Ensure soil type, conservation and its sustainability	21
3.6 Module 6: Perform harvesting and post-harvest operations	23
3.7 Module 7: Perform health, safety and security	25
4. Assessment Guidelines	28
5. List of Tools, Machinery & Equipment	30
6. List of Consumable Supplies	33

1 Introduction

Aariculture farm supervisor plan, organize, and coordinate farming operations in agriculturalenterprises. They are responsible for pre and keeping. making profitable. They ensure that post-harvest of farm farm record and farm crop. resources are used efficiently to support production in fulfilling contract requirements and market demand. They supervise employees and ensure that necessary safety precautions are taken. Supervisor control the daily operations of a farm, trac k revenues, and expenditures, and maintain equipment and facilities. They are responsible for implementing strategic and marketing plans for the enterprise. They are front-line workers who represent their enterprises in the agriindustry and the community at-large.

1.1 Overall objective of course

The course is developed on the philosophy of competency-based training which enables a trainee to acquire competencies required to perform his/her job efficiently. Course has the following objectives

- Provide qualified skilled workers and supervisor to agriculture industry.
- To build the capacity in trainees for adopting good agricultural practices as per recommendations of GAP at all stages of farm production leading to the improvement in quality and yield.
- Learn to conduct market survey, farm sales and safe transportation within farm.
- Introduction and learning of modern trends of hygiene, safety and work environment at agricultural farm.
- To prevent residues and quarantine threats in farm produce.
- To develop characteristics among the trainees such as self-reliance, reliability, responsibility, team sense and ability to lead in the field.
- To assure post-harvest quality during processing, packaging and storage in ware house to increase their shelf life and better quality product for the consumer.
- To learn safe handling and operating the farm machinery.
- To find out ways and means for increasing the efficiency of farm business through proper allocation of resources.

1.2 Competencies gained after completion of course

On successful completion of this course the trainee will attain following competencies:

- Manage Farm Assets
- Maintain Farm Records
- Perform Market Survey
- Identify soil type and ensure its conservation and sustainability
- · Conduct farm operations
- Perform harvesting and post-harvest operations
- Perform health, safety and security
- Enhance Professional Capacity

1.3 Job opportunities available immediately and in the future

After completion of this course trainee can work as:

- Farm supervisor
- Assistant farm manger
- Entrepreneur

1.4 Trainee entry level

Entry to assessment / training for NVQF National Vocational Certificate in "Agri Farm Supervisor" is open, however entry into this course based on this qualification may require skills and knowledge equivalent to middle preferably matriculate

1.5 Minimum qualification of trainer

• B.Sc honours in agriculture or equivalent must having five years industrial/farm experience

- Diploma in agriculture with minimum seven years' experience
- Must have the capacity of teaching in a CBT environment

1.6 Mode of Delivery in a competency-based environment

Training in a competency-based environment differs from the traditional method of training delivery. It is based on defined competency standards, which are industry oriented.

The traditional role of a trainer changes& shifts towards facilitation of training. A facilitator in Competency Based Training (CBT) encourages and assists trainees to learn for themselves. Trainees are likely to work in groups (pairs) and are engaged in different activities. Few are conducting practical tasks in the workshop, while others are writing, & some are not even in the classroom or workshop but in another part of the building using specialized equipment, working on computers doing research on the Internet or in the library. As trainees learn at different pace, they might well be at different stages in their learning, thus learning must be tailored to suit individual needs.

The following facilitation methods (teaching strategies) are generally employed in CBT programs:

- **Direct Instruction Method:** This might be effective when introducing a new topic to a larger group of trainees in a relative short amount of time. In most cases this method relies on one-way communication, hence there are limited opportunities to get feedback on the trainee's Learn.
- **Discussion Method:** This allows trainees to actively participate in sharing knowledge and ideas. It will help the trainer to determine whether trainees understand the content of the topic. On the other hand, there is a possibility of straying off topic under discussion and some trainees dominating others on their views.
- Small Group Method: Pairing trainees to help and learn from each other often results in quick knowledge/skill transfer, than with the whole class. The physical arrangement of the classroom/workshop and individual assessment may be challenging also, hence using analogy method is recommended.
- Problem Solving Method: This is a very popular teaching strategy for Competency Based Training (CBT). Trainees are challenged and are usually highly motivated when they gain new knowledge and skills by solving problems (Contingency skills). Trainees

develop critical thinking skills and the ability to adapt to new learning situations (Transfer skills). It might be time consuming and because trainees sometimes work individually, they may not learn all the things that they are expected to learn.

• Research Method: This is used for workshops and laboratory tasks, field experiments, and case studies. It encourages trainees to investigate and find answers for themselves and to critically evaluate information. It however requires a lot of time and careful planning of research projects for the trainee.

1.7 Medium of instruction

English, Urdu and local language

1.8 Qualification Level

Level IV Qualification

1.9 Duration of Qualification

One year

1.10 Sequence of the modules

The curriculum consists of seven (9) modules and should be delivered in the following sequence, however the individual learning units within the same module may be delivered interchangeably as stand-alone modules (if need be) or in a holistic approach.

- Module 1: Supervise Farm Assets
- Module 2: Maintain Farm Records
- Module 3: Perform Market Survey

- Module 4: Ensure soil conservation and its sustainability
- Module 5: Conduct farm operations
- Module 6: Perform harvesting and post-harvest operations
- Module 7: Perform health, safety and security
- Module 8. Enhance Professional Capacity

1.11 Timeframe of assessment (recommendation)

- Assessments should be scheduled during modules and at the completion of modules, depending on the exercises assigned
- Informal critiques which do not entail grading should be conducted frequently so that students can learn from each other's mistakes.

2 Overview about the program – Curriculum for Certificate in Agriculture Farm Supervisor

Module Title	Learning Units	Theory Hrs.	Workplace Hrs.	Timeframe of modules
Module 1: Supervise farm asset	LU1. Maintain farm assets LU2. Perform maintenance of farm machinery/ implements LU3. Maintain land units	30	116	146

Module 2. Maintain Farm Records	LU1. Maintain input and farm production records LU2. Prepare and maintain log books of farm machinery LU3. Maintain farm/labor accounts	23	124	157
Module 3: Perform Market Survey	LU1: Sensitize the product marketing LU2: Manage farm sales	13	60	73
Module 4: Conduct farm operations	LU1: Supervise Farm labor LU2: Prepare the crop production schedule LU3: Carryout farm cultural practices LU4: Supervise farm inputs LU5: Carryout plant protection measures LU6: Supervise the irrigation schedule LU7: Supervise farm security and safety	122	400	522

Module 5: Ensure soil conservation and its sustainability	LU1: Manage soil fertility analysis LU2: Apply balanced fertilizer (Organic and inorganic) LU3: Schedule crop rotation LU4: Ensure reclamation of soil and water	123	128	251
Module 6: Perform harvesting and post-harvest operations	LU1: Ensure crop harvesting at right time LU2: Manage post-harvest operations LU3: Manage safe storage after effective sorting, grading and packing of farm produce	51	192	243
Module 7: Perform health, safety and security	LU1: Ensure personnel safety LU2: Perform first aid for safety LU3: Ensure safe working environment	46	128	144
Total		408	1158	1566

3. Teaching and Learning Guide-

3.1 Module 1: Supervise Farm Assets

Overview of the Module: This Module provide the trainee necessary skills and knowledge to enable him to prepare farm inventory, machinery and tools record and stock register of farm inputs. Trainee will be expected to learn **Maintain farm inventory**, Ensure calibration, fumigation and maintenance history sheet of farm machinery and Maintain land units. After completing this module trainee will gain the necessary knowledge to maintain farm assets required for his/her level of training (level III).

Duration: 30 hours **Theory:** 116hours **Practice:** Total: 146 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1-Maintain farm inventory	P1. Identify inventory of farm assets P2. Perform basic numeracy to maintain physical record P3. Maintain stock register for farm assets	 Types, quantity and size of equipment Functions of farm assets Basic mathematics operation through manual and calculator. Incoming and outgoing of 	Theory hrs: 08 Practical hrs: 06 hrs Total: 14 hrs.	 Register Calculator Stationary Cupboard 	At agriculture farm and training place.

		assets			
LU2 Ensure maintenance of farm machinery/ implements	Trainee will be able to: P1.Maintain history sheet of farm machinery P2. Ensure smooth operations of farm machinery by calibrating to optimal specification P3.Ensure preventive maintenance as per maintenance schedule P4.Adopt safety measure while performing maintenance of farm machinery P5. Store farm machinery appropriately	 Working and importance of calibration. Operating manuals of machinery Fumigation material Method of fumigation Pre and Post fumigation safety measures Selection/concentration of fumigation material Waste management Specific use of nozzles Warranty and life of equipment Workability status of farm machinery 	Theory hrs: 12 hrs. Practical hrs: 60 hrs Total: 72 hrs.	 Fumigator Goggles Protecting clothes Face masks Anti -allergens Eye washers Nozzles Measuring tape De choking needle Iron rod 	At agriculture farm and training place.
LU3. Maintain land units	Trainee will be able to: Measure boundary of farm to record total available area Mark cultivated and non- cultivated land.	 Geographical and topographical characteristics of farm land. Factors hindering cultivation of noncultivated land and knowledge to bring this land under cultivation. 	Theory hrs: 10 hrs. Practical hrs: 50 hrs Total: 60 hrs.	 Measuring tape Auger Peg Tags Sign boards 	At agriculture farm and training place.

3.2 Module 2: Maintain Farm Records

Overview of the Module:: This module will enable the trainee to prepare data sheets and maintain farm records including farm crop, farm inputs, utility bills and farm labor accounts etc. These informations will enable farm supervisor to regulate the farm, make it more productive, cost effective and sustainable. After completing this module of training level III, the trainee will be capable to maintain farm records necessarily required for good production.

Duration: 23 hours **Theory:** 134 hours **Practice:** 157 hours

Learning	Learning Outcomes	Learning Elements	Duration	Materials	Learning Place
Unit				Required	

LU1- Maintain	Trainee will be able to:			Theory	_	la sad sut	Agriculture farm
input and farm		•	Type of fertilizer to	hrs:10 hrs	1.	In and out	and training place
production	Record the crop		be used at the farm			registers	31
records	specific inputs	•	Types and	Practical			
records	Record the irrigational		concentration of	hrs:			
	requirements		Pesticide, fungicide	90 hrs			
	according to crop		and herbicide				
	Record of crop specific		Types and variety of	Total:			
	cultivation		Seeds and their	100 hrs.			
	Record the crop		sowing rates				
	production for data	•	Fertility level of soil				
	reference		and quality of				
	Record irrigation		irrigation water				
	charges and power		available				
	tariff	•	Canal irrigation				
	taiiii		schedule				
		•	Alternative sources				
		•	of irrigation				
			<u> </u>				
		•	Types of implements used for cultivation				
		•	Handling of total				
			yield or produce				
		•	Modern techniques				
			of storage				
		•	Agriculture and				
			market taxes				

LU2 Prepare and maintain log books of farm machinery	 Design basic template for log books Maintain the log books as per requirement on regular basis Ensure maintenance protocol based on log book entry 	 Importance of the log book Storage and utilization of fuel and lubricant Cost effective efficiency of farm machinery Calculation of fuel consumption Maintenance protocols 	Theory hrs: o5 hrs. Practical hrs: 20 hrs Total: 25 hrs.	 Packing material Weighing balance Cover Sheet (tarpal) Sewing material 	Agriculture farm and training place
LU3. Maintain farm/labor accounts	 Enlist and categorise the labour according to their skill Prepare labour accounts and other expenditures of farm Costing of farm production for profit and loss 	 Wage rates Types of labour Labour trends Basic accountancy Basic labour laws 	Theory hrs: 08 hrs. Practical hrs: 24 hrs Total: 32 hrs.	 File cover Cupboard Stationary 	Agriculture farm and training place

3.3 Module 3: Perform Market Survey

Overview of the Module: This Module provide the trainee with the necessary skills and knowledge to conduct survey for cost effective farm inputs, Identify the potential market for farm produce and Select the suitable market for purchase and sale of products. After completing this module (training level- III) trainee will gain the necessary knowledge to know the latest trends for better marketing of his product through market survey.

Duration: 13 **Theory:** 60 hours **Practice:** Total: 73 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1- Sensitize the product marketing	 Identify the relevant market for purchase of farm inputs Perform comparative cost analysis of farm inputs available in market Purchase cost effective quality farm inputs 	 Price list of inputs and farm produce Latest brands of inputs Comparative cost analysis of farm inputs Quality of inputs Government policies for subsidies and support price Loan facility Crop insurance 	Theory hrs: 08 hrs. Practical hrs: 40 hrs Total: 48 hrs	1. Stationery	Market & Training place
LU2- Manage farm sales	 Identify the potential market Select the appropriate buyers according to farm produce 	 Fluctuation of market price of farm produce Market buyers Basic knowledge of 	Theory hrs: 05 hrs. Practical hrs:	1. Stationery	Market & Training place

 Assist in preparing selling agreements Arrange safe and cost effective transportation of farm produce agreement writing cost effective modes of transportation available in the vicinity Cost effective modes of transportation available in the vicinity 	:
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3.4 Module 4: Conduct farm operations

Overview of the Module: This Module will provide necessary skills and knowledge to design crop scheme and schedule different cultural practices at pre-harvest level. This will also strengthen the knowledge of plant protection and to plan crop inputs including fertilizer, irrigation etc. After completing this module trainee will gain the necessary skill and knowledge to carry out effective farm operations for his/her level of training (level III)

Duration: 122 hours **Theory:** 400 hours **Practice:** Total: 522 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1 Supervise Farm Labour	 Assign daily duties for the completion of farm task Monitor performance for improvement and better utilization of time/ staff Create conducive 	 Operations of farms Basic welfare and rights of farm labour Basic farm management tools Security protocols 	Theory hrs: 12 hrs. Practical hrs: 48 hrs Total:	Stationery Calculator	Agriculture farm and training place

LU2- – prepare the crop production schedule	environment for efficient output Trainee must be able to Identify the market demand for farm produce Prepare cropping scheme for target crops Plan crop sowing according to cropping season	 Market demand/trends High/ low value crops Availability of resources Weather conditions Sowing and harvesting times 	Theory 10 hrs. Practical hrs: 42 hrs Total: 52 hrs	1. All kinds of primary and secondary tools and equipment	Agriculture farm and training place
LU3- Carryout farm cultural practices	 Arrange the appropriate tools as per requirement Prepare soil for targeted crop Adopt suitable sowing method for better crop Adopt suitable practices to deal with climatic and other adverse stresses Deal with the biological and social threats 	 Different farm tools Sowing times of crops Precautionary measures based on Flood information Weather forecasting Biological and social invasions Pest, diseases and weeds Communal perception and attitude Different farming 	Theory hrs: 20 hrs. Practical hrs: 100 hrs Total: 120 hrs	 Spray machines Mixer machine Gloves Goggles Apron Seed drill machines Seed planter 	Agriculture farm and training place

1114	Proparo calondar	practices Market rates of	Theory		
LU4 Supervise farm inputs	 Prepare calendar for different inputs as per crop requirement Carryout purchase of different inputs as per calendar Apply prescribed chemical for seed treatment Apply the farm inputs as per crop requirement Adopt safety measures while applying inputs Apply organic sources at the farm 	 Market rates of inputs Manufacturing and expiry dates of required inputs Formulation techniques for application of inputs Different techniques of application Safety measures during storage and application of inputs Pest scouting for economic use of chemicals Biological control of 	Theory hrs: 20 hrs. Practical hrs: 80 hrs Total: 100 hrs	 Spray machines Gloves Goggles Apron Magnifying glass Insect collecting hand nets 	

	to alleviate the fertility level of soil	 pests Seed borne diseases and their treatment Organic and inorganic sources of fertilizers 			
LU5: . Carryout plant protection measures	 Undertake pest scouting for proper spray Apply chemical against crop pests and weeds Apply disease control practices 	 Pest scouting procedure Difference between insect and pests Attack and damage by different pests Appropriate chemicals and their dosage Biological control measures for pests and diseases 	Theory hrs: 30 hrs. Practical hrs: 80 hrs Total: 110 hrs	 Fogers Sprinklers Sprayers Pesticides Insecticides Weedicides 	Agriculture farm and training place

schedule of crops Ensure de-silting of water channels to enhance delivery of water Monitor Irrigation schedule of crops Cleanliness/ de-choking of water channels Critical stages of crops regarding water requirement Closure schedule of canals Proper storage and usage of rain water	
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3.5 Module 5: Ensure the soil conservation and its sustainability

Overview of the Module: This Module will enable the trainee to understand soil analysis to enhance and manage soil fertility through application of balanced fertilizers. It will also enhance the capacity and knowledge to perform the crop rotation and reclaim/ improve problematic soil and irrigation water. After completing this module trainee will gain the necessary knowledge to perform soil conservation and its sustainability for his/her level of training (level III)

Duration: 120 hours **Theory**: 128 hours **Practice**: Total: 248 hours

Learning	Learning Outcomes	Learning Elements	Duration	Materials	Learning Place
Unit				Required	
LU1 Manage soil fertility analysis	 Collect proper soil samples for soil analysis as per standard procedures Arrange soil analysis from relevant laboratory 	 Sample techniques and tagging Sample size Analysis facility Parameters or attributes of analysis report e.g. ✓ Soil types ✓ Soil pH ✓ Organic matter ✓ Available and non- available plant nutrients Macro and micronutrients Electrical 	Theory hrs: 30 hr. Practical hrs: 50 Total: 80 hrs.	1. Auger 2. Tags 3. Packaging material I	Agriculture farm and training place
		conductivity			
LU2- Apply balanced	Select required		Theory hrs: 50	1. Fertilizer	

fertilizer (Organic and inorganic)	fertilizer as per soil analysis to enhance fertility Apply fertilizer as per crop requirement Apply available manures and compost to sustain soil fertility	 Different sources and forms of fertilizers Importance of micronutrients Per acre dose of fertilizer for different crops Proper time of application of fertilizer Methods of fertilizer/manures application 	hr. Practical hrs: 50 hrs Total: hrs. 100	spreaders 2. Sprinklers 3. Fertilizer application drums 4. Spray machines	
LU3 Schedule crop rotation	 Prepare crop rotation scheme to sustain the fertility Supervise cultivation of crop as per cropping calendar 	 Importance of crop rotation Restorative and exhaustive crops Cultivation process Cropping calendar 	Theory hrs: 20 hr. Practical hrs: 10 hrs Total: hrs. 30	All primary and secondary tools	
F4 Ensure reclamation of soil and water	 Identify the soil and water issues to improve the soil status 	Categories of soil and water problemsAccurate	Theory hrs: 20 hr.		

Apply the amendments to solve soil and we problems as perfections are commendation.	rater acid	Practical hrs: 18 hrs Total: hrs.38hrs	
		1110.001110	

3.6 Module 6: Perform harvesting and post-harvest operations

Overview of the Module: This Module will enable the trainee to plan and carry out the effective harvesting to handle the losses and quality. It will also strengthen the knowledge of post-harvest processing including sorting, grading and packaging to maintain the quality of farm produce. This module will also enhance the expertise of product management after processing. After completing this module trainee will gain the necessary knowledge to carry out post-harvest farm operations for his/her level of training (level III)

Duration: 51 hours **Theory:** 192 hours **Practice:** Total: 243 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1 Ensure crop harvesting at right time	 Identify physiological maturity of crop for harvesting Adopt appropriate method of harvesting according to crop 	 Crop ripening indicators Observe impact of ripening indicator on yield Types of machinery for crop harvest Different techniques of harvesting 	Theory hrs: 15 hrs. Practical hrs: 60 hrs Total: 75 hrs.	 Combine harvester Thresher Reaper Sickles 	Class room, computer lab, design studio

LU2: Manage post-harvest operations	 Perform weighing and filling in suitable packing of farm produce Arrange transport for farm produce at proper place within farm Carryout post-harvest treatment for safety of farm produce 	 Calibration of weighing balance ' Suitable packing sources Importance of proper working of transport vehicle Post harvest handling 	Theory hrs: 12 hrs. Practical hrs: 72 hrs Total: 84 hrs.	 Weighing machine Bags Sealing materials Transport 	
LU3. Manage safe storage after effective sorting, grading and packing of farm produce	 Perform sorting and grading of farm produce to ensure quality Carryout grade wise packing of farm produce Spray recommended chemical in the store before storage of farm produce Stack/ store the produce packing in proper way in store to ensure the quality of farm produce Maintain temperature and moisture as per requirement in store 	 Importance of grade wise quality of farm produce Sorting of farm produce and its importance Quality material for packaging Requirement of ventilation in stores Requirement of temperature and moisture levels in stores Sprays/ chemicals required for storage 	Theory hrs: 24 hr. Practical hrs: 60 hrs Total: 84 hrs	 Thermometer Moisture detector Temperature controlling devices Racks and baskets 	

3.7 Module 7: Perform Health, safety and security measures

Overview of the Module: This Module will provide the trainee with the necessary skills and knowledge to prepare personal safety plan in order to deal with any emergency and hazardous condition at farm through effective first aid strategy. This module will also provide necessary knowledge to the trainee for maintaining safe and clear working environment so that the losses of any kind can be minimized. After completing this module trainee will gain the necessary knowledge and skill to work in a safe and secure working environment for his/her level of training (level III)

Duration: 46 hours **Theory:** 128 hours **Practice:** Total: 174 hours

Learning Unit	Learning Outcomes	Learning Elements	Duration	Materials Required	Learning Place
LU1 – Ensure personnel safety	 Execute pictorial guidelines and instruction of personal safety in working premises. Ensure proper clothing for safe working Use safety kit during farm operations as per requirement 	 Trainee must know and understand Safety manuals Importance of safety standards Usage of safety Tools Proper placement of tools 	Theory hrs: 16 hrs. Practical hrs: 28 hrs Total: 44 hrs.	 Mask Helmet Belt Safety shoes Gum shoes Safety gloves Goggles Waders Rope Lock & tie devices 	

LU2. Perform first aid	Trainee must be able to: Arrange first aid kit Deal with different injuries and hazards	K1. Hazards of work place K2. First aid treatment for; • Chemical injury • Mechanical injury • Biological injury K3. Manufacturing and expiry dates of first aid medicines	Theory hrs: 12 hr. Practical hrs: 52 hrs Total: 64 hrs.	1.First aid kit
H3. Ensure safe working environment	 Execute guidelines and instruction for safe working environment. Ensure that relevant protective clothing and equipment is cleaned and stored in proper place Deal with the potential threats (biological, chemical and physical) 	Trainee must know and understand: Safety standards Safe working components Storage and stacking of safety components Potential threats Specific working areas Information of local emergency services, hospitals and law enforcement agencies	Theory hrs: 18 hr. Practical hrs: 48 hrs Total: 56 hrs.	 Fire extinguisher s Smoke alarm First aid box Wheel chair Stretcher Safety helmet Bins Safety covers

 Mark the specific working area for specific operations Implement antitheft measures and secure farm valuables 		

4. Assessment Guidelines

Competency-based assessment is the process of gathering evidence to confirm the candidate's ability to perform according to specified outcomes articulated in the competency standard(s).

4.1 Types of assessment

a) Sessional assessment

The goal of sessional assessment is to monitor student progress in order to provide constant feedback. This feedback can be used by the trainers to improve their teaching and by learners to improve their learning.

More specifically, sessional assessments Help learners to identify their strengths and weaknesses and Help trainers to recognize where learners are struggling and address problems immediately

Examples of sessional assessments include:

- Observations
- Presentations
- Activity sheets
- Project work
- Oral questions

b) Summative (final) assessment

The goal of summative (final) assessment is to evaluate learning progress at the end of a training programme by comparing it against, e.g. set of competency standards.

Examples of summative assessments include:

- · Direct observation of work activities
- Final project
- Written questions

4.2 Principles of assessment

When conducting assessment or developing assessment tools, trainers/assessors need to ensure that the following principles of assessment are met:

Validity

• Indicates if the assessment outcome is supported by evidence. The assessment outcome is valid if the assessment methods and materials reflect the critical aspects of evidence required by the competency standards (Competency units, performance criteria, knowledge and Learn).

Reliability

• Indicates the level of consistency and accuracy of the assessment outcomes. The assessment is reliable if the assessment outcome will produce the same result for learners with equal competence at different times or places, regardless of the trainer or assessor conducting the assessment.

Flexibility

• Indicates the opportunity for learners to discuss certain aspects of their assessment with their trainer or assessor, such as scheduling the assessment. All learners should be made aware of the purpose of assessment, the assessment criteria, the methods and tools used, and the context and proposed timing of the assessment well in advance. This can be achieved by drawing up a plan for assessment.

Fair assessment

Fair assessment does not advantage or disadvantage particular learners because of status, race, beliefs, culture
and/or gender. This also means that assessment methods may need to be adjusted for learners with disabilities or
cultural differences. An assessment should not place unnecessary demands on learners that may prevent them from
demonstrating competence.

Assessment context:

This unit has to be assessed on the job, off the job, or a combination of on and off the job demonstrated by an individual work.

Critical aspects:-

Ability to

•

Assessment condition:-

- Each unit should be assessed separately.
- The candidate will have to access all the related tools, equipment, material and demonstrations required.
- The candidate will be required orally or by other methods of communication to answer questions asked by the assessor.
- Present evidence related to the skills
- Assessors must be satisfied that the candidate can competently and consistently perform all elements of the unit as specified by criteria and that he possesses the required knowledge and skill.

4.3 Resources required for assessment:-

It includes all tools, equipment and related material, listed in the curriculum

5. List of Tools, Machinery & Equipment

Total number of students: 20

Name of Trade		Agriculture Farm Supervisor	
Duration		1 year	
Sr. No.	Name of Item/ Equipment / Tools Quantity		Quantity
1.	Computer 10		10
2.	Printer		05

3.	Calculator	20
4.	Scale	20
5.	Compass	5
6.	Different seed treaters	05
7.	Hand tools	5 boxes
8.	Sickles	5
9.	Hand Hoe (Ramba)	20
10.	Spade	20
11.	Pruners	05
12.	Magnifiers	20
	Measuring tap	5 boxes
14.	Hoe (kasola)	20
15.	Tractors of different horse powers	02
16.	Primary Tilage implements	20
	Disc plough	02
18.	Mold bold plough	02
19.		02
20.	Disc harrow	02
21.	Cultivators	02
22.	Rota weighters	02
23.	Precision Land levelers	02
	Puddler	02
25.	Front blade	02
26.	Rear blade	02
27.	Sowing machines	02
	Different planters	05
29.	Seed drills	03
30.	Ridger cum bed shaper	02
31.	Boarder disc	02

	Inter cultural machinery:	02
33.	Hoeing machines	05
34.	Rotary weeders	02
35.	Chemical application machinery	02
36.	Sprayers	05
37.	0 7	01
38.	Reaper –wind rowers	02
39.	I I	01
40.	Cutter binder	01
41.		01
42.	Combine harvester	01
43.	Irrigation equipment/machinery	01
44.	0 1 1	01
45.	<u> </u>	01
	Trickle irrigation system	01
	Sprinkler irrigation system	01
48.	Grader Line	01
49.	Dryers	01
50.	Cleaners	01
51.	Pruning machinery	01
52.		01
53.	0 0	01
54.		02
55.	Fodder chopper machine	01
56.	Knives	05

List of Consumable Supplies (for a class of 20 students)

Name of Trade		Certificate in Agriculture Farm Supervisor	
Duration		1 year	
Sr. No.	Name of Consumable Supplies Qu		Quantity
1.	Pencil	Pencil	
2.	Note Books		100
3.	Stock Registers	Stock Registers	
4.	Log Books		
5.	Seeds of different types		100 samples
6.	Charts		200
7.	Markers		100
8.	White Boards		05
9.	Chemicals		100 samples
10.	Face Masks		100
11.	Gloves		100
12.	Bags		40
13.	Rubber Long Shoes		20
14.	Field Uniform/ Dangri		20
15.			

National Vocational and Technical Training Commission (NAVTTC)

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