PRODUCE TEMPERATE FRUITS

UNIT CODE: HO/OS/HP/CR/03/3/B

UNIT DESCRIPTION

This unit specifies the competencies required to participate in establishing and maintaining a temperate fruits orchard. This includes applying food safety measures in land preparation, planting, weeding, nutrient application, control of pests and diseases, harvesting and post-harvest handling of fruits.

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ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the k	
outcomes which ma	
up workplace	Bold and italicized terms are elaborated in the range.
function.	
1. Apply food safety	1.1 Orchard is established and maintained according to
measures in	recommended agronomic and instructions given
producing	1.2 Standard operating procedures for preventing and
temperate fruits	mitigating food safety risks are implemented as per the
	identified food safety risks
	1.3 Food safety procedures are followed in producing
	temperate fruits
	1.4 Possible sources of food safety hazards are identified
	and documented as per instruction
2. Prepare to	2.1 Tools, equipment, materials and supplies are
produce tempera	
fruits	2.2 Occupational safety and health procedures are adhered
	to according workplace procedures
	2.3 Soil for analysis is sampled as per <i>soil sampling</i>
	<i>procedure</i> and instructions given.
	2.4 Land for <i>temperate fruits</i> production is prepared
	according to type of fruit tree and instructions given.
3 Produce tempera	**
fruits	recommended rates and instructions given.
	1.6 Diseases, pests and physiological disorders of fruit are
	managed as per the instructions.
4. Complete	4.1 Fruits are harvested in accordance with the instructions
production of	given.
temperate fruits	4.2 Post-harvest handling of the temperate fruits is carried
	out based on the instructions given.
	4.3 Temperate fruit production records are kept as per
	instructions given

4.4 Waste disposal is undertaken in accordance with workplace practices and as instructed

RANGE

This section provides work environments and conditions to which the performance criteria apply. It allows for different work environment and situations that will affect performance.

Vai	riable	Range
	Agronomic requirements may include but not limited to:	 Growing cycle and growing period Rooting of cuttings Optimizing soil conditions Determining crop water needs Application of nutrients Control pests, diseases, physiological disorders and weeds Application of dormancy breaking practices
	Food safety procedures may include but not limited to	 Hand washing PPE Personal hygiene Clean as you go
	Sources of food safety hazards may include but not limited to:	 Water Growing media Site Organic and inorganic fertilizer
	Food safety hazards may include but not limited to:	 Chemicals Heavy metals Pesticides Biological Physical
	Tools may include but not limited to:	 Hoes Machetes Secateurs Shovels Soil augur Panga Pegs Hammer Pruning saw Bucket Brush Shears

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		• Dibbler
6.	Equipment may include but	Spray pumps
	not limited to:	Watering cans
	1100 11111100 00 000	Hose pipes
		• Plough
		Harrows
		• Ridgers
		Boom sprayer
		Pruning saw
		Wire strainer
		• Traps
		Pipe sprinklers Securing flogs
		• Scouting flags
		• Storage tanks
		• Tractors
		Grading shed
		Bud count square
		Meteorological equipment
7.	Materials and supplies may	 Seedlings /planting materials
	include but not limited to:	 Pesticides
		 Herbicides
		 Pheromones
		 Dormancy breaking chemicals
		 Fertilizers
		 Staking sticks
		Nails
		 Khaki paper bags size 3
		 Stationery
		 Planting pots
		 Fencing wire
		 Manures
		 Measuring tape
		 Layout string
		• Shade nets
		 Translucent papers
8.	Occupational safety and	The practices to manage hazards from:
	health procedures may	• Fire
	include but not limited to:	 Use of tools
		 Chemical contamination and poisoning
9.	Soil sampling procedure	The process of
	may include but not limited	• soil collection
	to:	 packaging
		• Labeling
		submission for analysis
10.	. Temperate fruits may	Types of:
	include but not limited to:	• Plums

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	 Pears Apples Peaches Apricot Raspberries blackberries
	Straw berries.
11. Harvest and post-harvest handling may include but not limited to:	 Removal of edible crop parts (e.g. fruits) from the plant Basic cooling
	• Cleaning
	Transporting
	Sorting and grading
	Weighing

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit of competency.

Required skills

The individual needs to demonstrate the following skills:

- Record keeping
- Basic hygiene
- Tilling
- Measuring
- Leveling
- Gaping
- Pruning
- Spraying
- Timing and application of dormancy breaking practices
- Produce handling
- Soil sampling
- Basic numeracy
- Communication

Required knowledge

The individual needs to demonstrate knowledge of:

- Basic food hygiene practices
- Record keeping
- Basic temperate fruits orchard establishment and management
- Basic tools and equipment used in production of temperate fruits
- Basic soil sampling
- Basic soil conservation
- Basic agronomic practices in temperate fruits production
- Basic maturity indices in temperate fruits

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- Harvesting and post harvesting handling of temperate fruits
- Basic production records
- Basic waste disposal
- Occupational safety and health

EVIDENCE GUIDE

This provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge and range.

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1. Critical Aspects of	Assessment requires evidence that the candidate:
Competency	1.1 Prepared planting land depending on the type of fruit tree
	and instructions given.
	1.2 Established and maintained the orchard according to
	recommended <i>agronomic practices</i> and instructions given.
	1.3 Harvested and carried out post-harvest handling practices
	as instructed
	1.4 Observed safety measures by using Personal Protective
	Equipment (PPE) and correct tools as per the instructions
	1.5 Observed food safety procedures as per instructions
	1.6 Documented food safety records as per instructions
2. Resource Implications	The following resources should be provided:
for competence assessment	2. 1 Access to relevant workplace where assessment can take
	place
	2. 2 Appropriately simulated environment where assessment
	can take place
	2. 3 Materials relevant to the proposed activity or tasks
3. Methods of Assessment	Competency may be assessed through:
	3.1 Observation
	3.2 Oral questioning
	3.3 Interviews
	3.4 Third party report
4. Context of Assessment	Competency may be assessed:
	4.1 Off-the-job
	4.2 On-the-job
	4.3 Work placement -attachment
5. Guidance information	Holistic assessment with other units relevant to the industry
for assessment	sector, workplace and job role is recommended.

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