PRODUCE HERBS AND SPICES

UNIT CODE: HO/OS/HP/CR/06/3/B

UNIT DESCRIPTION

This unit specifies the competencies required to participate in producing quality herbs and spices while applying food safety measures, observing regulatory requirements and keeping accurate production records.

ELEMENTS AND PERFORMANCE CRITERIA

Th out up	ese describe the key teomes which make workplace action. Apply food safety measures in producing herbs and spices	PERFORMANCE CRITERIA These are assessable statements which specify the required level of performance for each of the elements. Bold and italicized terms are elaborated in the range. 1.1 Garden is established and maintained according to recommended agronomic practices and instructions given. 1.2 Standard operating procedures for preventing and
		mitigating food safety risks are implemented as per the identified food safety risks 1.3 <i>Food safety procedures</i> are followed in producing herbs and spices 1.4 Possible <i>sources of food safety hazards are</i> identified and documented as per instruction
2	Prepare to produce herbs and spices	 2.1 Tools, equipment, materials and supplies are assembled based on the requirements of the job 2.2 Occupational safety and health procedures are adhered to according workplace procedures 2.3 Soil for analysis is sampled as per soil sampling procedure and instructions given. 2.4 Land for herbs and spices production is prepared according to recommended practices as instructed
3	Produce herbs and spices	3.1 Nutrients are applied to the nut trees based on the recommended rates and instructions given.3.2 Diseases and pests are managed as per the workplace instructions
4	Complete production of herbs and spices	 4.1 Nuts are harvested in accordance with the instructions given. 4.2 <i>Post-harvest handling</i> of the herbs and spices is carried out based on the instructions given. 4.3 Herbs and spices production records are kept as per workplace instructions

4.4 Waste disposal is undertaken in accordance with
workplace practices

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.

Variable		Range	
1.	Agronomic practices 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 	
2.	Food safety procedures may include but not limited to	Hand washingPPEPersonal hygieneClean as you go	
3.	Sources of food safety hazards may include but not limited to:	 Water Growth media Site Organic and inorganic fertilizers Agro-chemicals 	
4.	Food safety hazards may include but not limited to:	 Chemicals Heavy metals Pesticides Biological Physical 	
5.	Tools may include but not limited to:	 Hoes Machetes Secateurs Shovels Soil augur Panga Pegs Hammer Bucket Dibbler 	
6.	Equipment may include but not limited to:	Spray pumpsWatering cansHose pipes	

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	• Plough
	• Harrows
	• Ridger
	Boom sprayer
	Wire strainer
	 Traps
	Pipe sprinklers
	Scouting flags
	Storage tanks
	• Tractors
	Bud count square
	Meteorological equipment
7. Materials and supplies may	Seedlings /planting materials
include but not limited to:	Pesticides
merade but not minted to.	Herbicides
	Pheromones
	Fretilizers
	Staking sticks
	• Nails
	• Khaki paper bags size 3
	• Stationery
	• Manures
	Measuring tape
	Layout string
	Shade nets
	Translucent papers
	 Planting pots
	Fencing wire
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 soils for analysis
10. Herbs and spices may	Varieties of :
include but not limited to:	Coriander
	• Parsley
	Garlic
	Ginger
	• Dill
	• Chives
	• Mint
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	Rosemary
	Thyme
11. Post-harvest handling may	Removal of edible crop parts (e.g.
include but not limited to:	leaves, stems, roots tubers, combs)
	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
- Produce handling
- Soil sampling
- Basic numeracy
- Communication

Required knowledge

The individual needs to demonstrate knowledge of:

- Basic food hygiene practices
- Record keeping
- Basic nuts fruits orchard establishment and management
- Basic tools and equipment used of herbs and spices production
- Basic soil sampling
- Basic soil conservation
- Basic agronomic practices in herbs and production
- Basic maturity indices of herbs and spices
- How to set up trellis/ support system
- Harvesting and post harvesting handling of herbs and spices
- 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.

Critical Aspects of Competency	Assessment requires evidence that the candidate: 1.1 Prepared planting land depending on the type of herbs and spices as instructed. 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	2. 1 Access to relevant workplace where assessment can
assessment	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	Competency may be assessed through:
Assessment	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
	Off the job assessment must be undertaken in a closely simulated workplace environment.
5. Guidance information	This section describes the skills and knowledge
for assessment	required for this unit of competency.