#### PRODUCE VEGETABLES

UNIT CODE: HO/OS/HP/CR/10/3/B

## **UNIT DESCRIPTION**

This unit specifies the competencies required to participate in production of quality vegetable crops which include exotic, indigenous and Asian vegetables. It involves applying food safety measures in land preparation, establishment, management, harvest and post-harvest handling of vegetables, and keeping accurate records.

## ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key	These are assessable statements which specify the required
outcomes which make	level of performance for each of the elements.
up workplace	Bold and italicized terms are elaborated in the range.
function.	
1. Apply food	1.1 <i>Exotic and indigenous</i> vegetable garden is established
safety	and maintained according to recommended agronomic
measures in	practices and instructions given.
producing	1.2 Possible <i>sources of food safety hazards</i> are identified and
vegetables	documented as per instruction
	1.3 <i>Food safety procedures</i> are followed in producing
	vegetables
	1.4 Standard operating procedures for preventing and
	mitigating food safety risks are implemented as per the
	identified food safety risks
2. Prepare to	2.1 <i>Tools, equipment, materials and supplies</i> are assembled
produce	based on the requirements of the job
vegetables	2.2 <i>Occupational safety and health procedures</i> are adhered
	to according workplace procedures
	2.3 Soil for analysis is sampled as per <i>soil sampling</i>
	procedure and instructions given.
	2.4 Land for <i>vegetables</i> production is prepared according with
	instructions given.
	2.5 Vegetable <i>production structures</i> are constructed
	according to vegetable production manual and instructions
2 D 1	given.
3. Produce	3.1 Nutrients are applied to the vegetable plants based on the
vegetables	soil analysis report and instructions given.
	3.2 Diseases and pests are managed as per the instructions
	given
4. Complete	4.1 Vegetables are harvested in accordance with the
production of	instructions given.
vegetables	4.2 <i>Post-harvest handling</i> of vegetables is carried out as
	instructed

4.3 Vegetable production records are kept as per instructions 4.4 Waste disposal is undertaken in accordance with
instructions given.

## **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
Exotic vegetable may include but not limited to:	<ul> <li>Types:</li> <li>Cole crops: cabbage, kales, broccoli, and cauliflower:</li> <li>Solanaceae: tomato, Irish potato, capsicum:</li> <li>Legumes: French beans, garden peas:</li> <li>Root: onions; carrots:</li> <li>Others: Sweet corn, lettuce, spinach, asparagus, cucumber, melons, squash.</li> </ul>
Indigenous and Asian     vegetables may include but     not limited to:	Types:      Eggplant/ brinjals     capsicums     okra,     karella     moringa     black nightshade     Spider weed     amaranth     cowpeas     pumpkin     crotalaria
3. Sources of food safety hazards may include but not limited to:	<ul> <li>Water</li> <li>Growing media</li> <li>Site</li> <li>Agro-chemicals</li> <li>Organic and inorganic fertilizer</li> </ul>
Food safety procedures     may include but not     limited to	<ul><li>Hand washing</li><li>PPE</li><li>Personal hygiene</li><li>Clean as you go</li></ul>
5. Tools may include but not limited to:	<ul><li>Hoes</li><li>Machetes</li><li>Secateurs</li></ul>

	01 1
	• Shovels
	• Soil augur
	• Panga
	• Pegs
	Hammer
	• Bucket
	<ul> <li>Dibbler</li> </ul>
<ol><li>Equipment may inclu</li></ol>	• Spray pumps
but not limited to:	<ul> <li>Watering cans</li> </ul>
	Hose pipes
	<ul> <li>Plough</li> </ul>
	• Harrows
	Ridger
	Boom sprayer
	Wire strainer
	• Traps
	Pipe sprinklers
	• Scouting flags
	Storage tanks
	• Tractors
	Bud count square
	Meteorological equipment
7. Materials and supplie	
include but not limite	
	Herbicides
	Pheromones
	Fertilizers
	Staking sticks
	• Nails
	<ul> <li>Khaki paper bags size 3</li> </ul>
	• Stationery
	• Manures
	<ul><li>Measuring tape</li></ul>
	<ul><li>Layout string</li></ul>
	• Shade nets
	<ul><li>Translucent papers</li></ul>
	<ul><li>Planting pots</li></ul>
	<ul><li>Fencing wire</li></ul>
8. Occupational safety a	
health procedure may	
include but not limite	
include but not limite	• Chemical contamination and
	poisoning
	poisoning

9. Soil sampling procedure	The process of:
may include but not	<ul> <li>soil collection,</li> </ul>
limited to:	<ul><li>packaging</li></ul>
	• labeling
	<ul> <li>submission soils for analysis</li> </ul>
10. Production structures may	High tunnels
include but not limited to:	Green houses
	Screen houses
11. Harvest and post-harvest	Removal of edible crop parts (e.g.
handling may include but	leaves, stems, roots tubers, bulbs,
not limited to:	combs) from the plant
	Basic cooling
	<ul> <li>Cleaning</li> </ul>
	<ul> <li>Transporting</li> </ul>
	<ul> <li>Sorting and grading</li> </ul>
	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 vegetable garden establishment and management
- Basic tools and equipment used of vegetable production
- Basic soil sampling
- Basic soil conservation
- Basic agronomic practices in vegetable production

- Vegetable production structures and support systems
- Basic maturity indices for vegetable production
- Harvesting and post harvesting handling of vegetables
- 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.

1 0 1 1 1 1 2		
1. Critical Aspects of	Assessment requires evidence that the candidate:	
Competency	1.1 Prepared planting land depending on the type of	
	vegetable as instructed.	
	1.2 Established and maintained the vegetable garden	
	according to recommended agronomic practices and	
	instructions given.	
	1.3 Harvested and carried out post-harvest handling	
	practices based on the type of vegetable 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	The following resources must be provided during	
Implications	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	
	Ornamental plants production manual	
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	Competency may be assessed:	
Assessment	4.1 Off-the-job	
	4.2 On-the-job	
	4.3 Work placement -attachment	
5. Guidance	This section describes the skills and knowledge required for	
information for	this unit of competency.	
assessment		
	1	