PRODUCE MUSHROOMS

UNIT CODE: HO/OS/HP/CR/05/3/B

UNIT DESCRIPTION

This unit specifies the competencies required to participate in production of mushrooms. It includes applying food safety measures in preparing mushroom production structures, managing and harvesting the mushrooms and carrying out post-harvest handling of mushrooms.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key	These are assessable statements which specify the required level of
outcomes which make	performance for each of the elements.
up workplace function.	Bold and italicized terms are elaborated in the range.
1. Apply food safety	1.1 The type of <i>mushroom</i> to be established is determined in
measures in	accordance with market demand and instructions given
producing	1.2 Standard operating procedures for preventing and mitigating
mushrooms	food safety risks are implemented as per the identified food
	safety risks
	1.3 <i>Food safety procedures</i> are followed in producing mushrooms
	1.4 Possible sources of food safety hazards are identified and
	documented as per instruction
2. Prepare to produce	2.1 The <i>mushroom house</i> is sited according to farm plans and
mushroom	instructions given.
	2.2 Tools, equipment, materials and supplies are identified and
	sourced based on the requirements of the job
	2.3 The mushroom house is constructed depending on MoALF
	production guidelines and instructions given.
3. Produce mushroom	3.1 The starter culture is put in place based on MoALF production
	guidelines and instructions given.
	3.2 Established mushrooms are managed as per MoALF
	production guidelines and instructions given.
	3.3 Established mushroom are protected from pests and diseases as
	per MoALF production guidelines and instructions given.
	3.4 Established mushroom are harvested as per production
	guidelines and instructions given.
4. Complete	4.1 Post-harvest handling of the mushrooms is carried out as per
production of	MoALF production manual and instructions given.
mushrooms	4.2 Waste management is undertaken in accordance with
	Environmental Management and Coordination Act (EMCA)
	and 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
Mushroom may include but not limited to:	Oyster,shiitake andwhite button
2. Food safety procedures may include but not limited to	 Hand washing Use of PPE Judicious use of agro inputs Personal hygiene Clean as you go
3. Sources of food safety hazards may include but not limited to:	 Water Growing media Site Organic and inorganic fertilizer
4. Food safety hazards may include but not limited to:	 Chemicals Heavy metals Pesticides Mycotoxins (Aflatoxin) Biological Physical
5. Mushroom houses may include but not limited to:	 Mushroom House Shelves Plastic Bags Heat Oven
6. Tools may include but not limited to:	Weighing scale
7. Materials may include but not limited to:	 Poly tubes Lockable drum Table spoon Sisal twines Supplement –soya bean meal Plant residues –stalks and bran Polythene bags Shelves Shade Spawn Water Substrate

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8. Equipment may include but not	 PPE –hand gloves, dust coat, dust masks Hand spray equipment
limited to:	OvenBasin
9. Materials and supplies may include but are not limited to:	 Methylated spirit Lime Fuel for heating substrate Molasses Sisal twine Soap

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
- Pests, diseases and nutrients deficiency scouting
- Equipment calibration
- Technical Report writing
- Produce handling
- Soil sampling
- Observation
- Negotiation
- Digital literacy

Required knowledge

The individual needs to demonstrate knowledge of:

- Basic food hygiene practices
- Record keeping
- Agro Ecological Zonation
- Mushroom production structure Management
- Types of mushrooms
- Physiology of mushrooms
- Types of tools and equipment used in production of mushrooms
- Sourcing/Procurement Procedures (I.E. Seedlings, Supplies)
- Accounting principles
- Mushrooms production Terminologies

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- Mushroom production Technologies
- Occupational Safety and Health Procedures
- Controlling Pests and Diseases in mushrooms
- Soil Testing
- Regulations and Standards of establishing mushroom production structures
- Waste Management
- Determining mushroom maturity
- Harvesting and Post Harvesting Handling of mushrooms
- General management of mushroom production farm

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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 growing structures to a level suitable to the
		planting material as instructed.
		1.2 Observed safety measures by using Personal Protective
		Equipment (PPE) and correct tools
		1.3 Followed required process of producing mushrooms as
		instructed
		1.4 Efficiently used the inputs
		1.5 Harvested mushrooms and carried out post-harvest
		handling of mushrooms as instructed.
		1.6 Observed food safety procedures as per instructions
		1.7 Documented food safety records as per instructions
2.	Resource	The following should be provided:
	Implications for	2. 1 Access to relevant workplace where assessment can take
	competence	place
	assessment	2. 2 Appropriately simulated environment where assessment
		can take place
		2.1 Materials relevant to the proposed activity or tasks
3.	Methods of	Competency may be assessed through:
	Assessment	3.1 Observation
		3.2 Written tests
		3.3 Oral questioning
		3.4 Third party reports
4.	Context of	Competency may be assessed:
	Assessment	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.
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5.	Guidance	Holistic assessment with other units relevant to the industry
	information for	sector, workplace and job role is recommended.
	assessment	- 0

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