

PROTECT CROP

UNIT CODE: AGR/OS/EXT/CR/05/6/A

UNIT DESCRIPTION

This unit specifies the competencies required to carry out crop protection. It involves Carrying out disease and pest surveillance, identifying method of pest and disease control, procuring, transport and storing farm pesticides, controlling crop/pests' diseases, disposing expired chemical and empty containers and preparing crop protection report

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT	PERFORMANCE CRITERIA
These describe the key outcomes which make up workplace function .	These are assessable statements which specify the required level of performance for each of the elements. <i>Bold and italicized terms are elaborated in the range.</i>
1. Carry out disease and pest surveillance	1.1 Pest scouting is done as per crop scouting manual 1.2 Disease control area / plot is identified according to Farm plan
2. Identify method of pest and disease control	2.1 <i>Pests and diseases</i> to be controlled are identified as per Crop Scouting Manual 2.2 Affected areas/plots are mapped in accordance with type of pest/ disease 2.3 <i>Pest/disease control method</i> is determined based on type of pest/disease identified 2.4 Material supplies, tools and equipment are identified, verified and calibrated as per method
3. Manage farm pesticides	3.1 Farm pesticides are procured based on type of pest/disease identified, mapped out areas and farm procurement procedures 3.2 Pesticide is transported in accordance with types of pesticides best practices 3.3 Farm pesticides are stored in accordance with OSH standards, manufacturer's manual and work place policy 3.4 Farm pests are recorded as per SOPs
4. Control crop/pest diseases	4.1 PPEs requirements are adhered to as per OSH Standards 4.2 Materials, Tools and equipment to be used are identified as per the chosen methods. 4.3 Material tools and equipment are used as per the instructions manual. 4.4 Pest/diseases is controlled as per pest/ disease identified and mapped area.
5. Dispose expired	5.1 Waste and <i>recyclable materials</i> are collected and sorted

chemical and empty containers	<p>according to OSH standards and workplace policy</p> <p>5.2 Expired chemicals are disposed in accordance with workplace policy, manufacturer's instructions and OSH Standards</p> <p>5.3 Tools and equipment are cleaned and stored as per manufacturers manual</p> <p>5.4 <i>First aids skills</i> are demonstrated in accordance with Safe Use of Pesticide Manual</p>
6. Prepare crop protection report	<p>6.1 Crop pest/disease situation report is prepared as per SOPs</p> <p>6.2 Crop pest/disease report is shared as per SOPs</p> <p>6.3 Crop protection schedules/activities are prepared and documented in the journal</p>

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.

Range	Variables
1. Pests and diseases may include but not limited to:	<ul style="list-style-type: none"> • Insects • Birds • Mammals • Nematodes • Physiological • Fungal diseases • Bacterial diseases • Viral diseases
2. Pest/disease control method may include but not limited to:	<ul style="list-style-type: none"> • Cultural methods • Biological • Chemical • IPM • ITK • Physical
3. Recyclable materials may include but not limited to:	<ul style="list-style-type: none"> • Plastics • Paper
4. First aids skills may include but not limited to:	<ul style="list-style-type: none"> • Cleaning • Anti-dote • Resuscitation

REQUIRED KNOWLEDGE AND UNDERSTANDING

The individual needs to demonstrate knowledge and skills

SKILLS

The individual needs to demonstrate the following skills:

KNOWLEDGE

The individual needs to demonstrate the following knowledge:

- Disease and pest's symptoms
- Dispose expired chemical and empty containers
- Methods of pests and disease control
- Environmental protection guidelines
- First aid
- Safe use of pesticide
- Pesticide transportation
- Pesticide storage
- Recording farm pests
- Integrated pest management
- Indigenous technical knowledge
- Pest and disease resistant cultivars
- Maintaining tools and equipment
- Situation reporting
- Crop protection scheduling

EVIDENCE GUIDE

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

1. Critical Aspects of Competency	Assessment requires evidence that the candidate: Demonstrated: <ul style="list-style-type: none">• Understanding pests and diseases• Ability to map out infected areas• Understanding pests and disease control methods• Ability to observe safety measures• Ability to use tools and equipment• Ability to dispose surplus materials
2. Resource Implications	The following resources must be provided: <ul style="list-style-type: none">• Assessment location• Personal protective equipment

	<ul style="list-style-type: none"> • Tools, equipment and materials
3. Methods of Assessment	<p>Competency may be accessed through:</p> <ul style="list-style-type: none"> • Written tests • Oral questioning • Third party reports • Case studies
4. Context of Assessment	<p>Competency may be assessed:</p> <ul style="list-style-type: none"> • On the job • Off the job • In work placement (attachment) <p>Off the job assessment must be undertaken in a closely simulated workplace environment</p>
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry subsector, workplace and job roles is recommended.</p>

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