CROP PROTECTION

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

Relationship to Occupational Standards
This unit addresses the Unit of Competency: protect crops
Duration of Unit: 220

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

Summary of Learning Outcomes
1. Carry out disease and pest surveillance
2. Identify method of pest and disease control
3. Procure, transport and store farm pesticides
4. Control crop/pest diseases
5. Dispose expired chemical and empty containers
6. Prepare crop protection report

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Carry out disease and pest surveillance	• Types of crop pests and diseases • surveillance and mapping • Documentation process	• Written tests • Observation • Oral questions • Third party report
2. Identify method of pest and disease control	• Pests and disease control methods • Chemical • Biological • Cultural • Physical • IPM • ITK	• Written tests • Observation • Oral questions • Third party report •

3. Procure, transport and store farm pesticides	• Safe use of pesticides • Handling of pesticides • Packaging of pesticides • Transportation of pesticides • Storage of pesticides • Occupation safety standards • First Aid skills	• Written tests • Observation • Oral questions • Third party report
4. Control crop/pest and diseases	• Types of spraying equipment • Calibration of control equipment • Spray chemical formulation • Spraying techniques • Use of PPE • Occupational safety standards • First Aid skills	• Observation • Written tests • Oral questions • Third party report •
5. Dispose expired chemical and empty containers	• Types of chemical packaging materials • Disposal methods • Environmental management and regulations • Occupational safety standards • First Aid skills	• Observation • Written tests • Oral questions • Third party report •
6. Prepare crop protection report	• Data collection • Data analysis • Report writing	• Observation • Written tests • Oral questions • Third party report

Suggested Methods of instruction
- Project
- Demonstration by trainer
- Practice by the trainee
- Discussions
- Direct instruction
- Simulation
- On job training

Recommended Resources
- Diseases and pest identification charts
- Pictograms

- Mapping tools
- Drums
- Chemicals
- Water
- PPEs
- Insect traps
- Spray pumps
- First kits
- Text books
- Note books and manuals
- Flip charts
- Felt pens
- Clip board
- White boards
- Projectors
- Computers