

PRODUCE AND FORMULATE LIVESTOCK FEEDS

UNIT CODE: AGR/CU/EXT/CR/03/6/A

Relationship to Occupational Standards

This unit addresses the Unit of Competency: Produce and formulate livestock feeds

Duration of Unit: 180 hours

Unit Description

This unit specifies competencies required to produce and formulate livestock feeds. It involves determining animal nutrition requirements, calculating livestock feed ratios, producing animal feed and feedstuffs, processing animal feedstuff, animal feedstuffs mixing, packaging animal feed and storing animal feed.

Summary of Learning Outcomes

1. Determine animal nutrition requirements
2. Calculate/compute/ formulate Livestock feed ration,
3. Produce or Procure animal feed and feedstuffs
4. Process animal feedstuff
5. Animal feedstuffs mixing
6. Package animal feed
7. Store animal feed

Learning Outcomes, Content and Suggested Assessment Methods

Learning Outcome	Content	Suggested Assessment Methods
1. Determine animal nutrition requirements	<ul style="list-style-type: none">• Animal nutrition• Definition of terms• Nutrients requirement• Nutritional elements• Feed values• Animal feed intake• Recipes / formula• Rations	<ul style="list-style-type: none">• Written tests• Observation• Oral questions• Third party report•
2. Calculate/compute/ formulate Livestock feed ration,	<ul style="list-style-type: none">• Feed formulation methods• Animal feed rations• Weighing methods• Feed formulation formulas /	<ul style="list-style-type: none">• Written tests• Observation• Oral questions• Third party report

	<ul style="list-style-type: none"> recipes • Animal feed analysis • 	
3. Produce or Procure animal feed and feedstuffs	<ul style="list-style-type: none"> • Land preparation • Livestock feeds and feedstuffs • Types feedstuffs • Sources of livestock feeds • Type of pasture species and their nutritive values • Pasture establishment and management • Harvesting • Range management • Conservation of feedstuffs 	<ul style="list-style-type: none"> • Observation • Written tests • Oral questions • Third party report •
4. Process animal feedstuff	<ul style="list-style-type: none"> • Types of animal feed processing • Hay making • Silage making • Animal feed supplements and additives • Livestock feed mixing equipment • Animal feed mixing technologies • Blending • Types of packaging materials • Product standardization requirements (KEBS) • Branding • Animal feed storage methods • Animal feed storage structures • Storage safety standards 	<ul style="list-style-type: none"> • 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

- Animal feed ingredients
- Feedstuff
- Pangas
- Jembes slashers
- Tractor
- Seeds
- Cuttings
- Splits
- Vines
- Stolon
- Rhizoms
- Legumes
- Animal feed mills
- Animal feed mixers
- Shovels
- Hay balers
- Hay boxes
- Silage bags and other silos
- Gunny bags
- Animal feed Store
- Gumboots
- Overall
- Face masks
- Caps
- Gloves
- Text books
- Note books
- Flip charts
- Projector
- Computers
- Manuals
- White boards
- White board markers

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- Masking tapes
- Felt pens

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