

FORMULATE DAIRY FEED

UNIT CODE: DA/OS/FM/CR/04/3/B

UNIT DESCRIPTION

This unit specifies the competencies required to formulate dairy feed. It involves applying food safety measures while participating in collection of feed ingredient and ration samples; processing and mixing feed ingredients; and ration packaging and storage.

ELEMENTS AND PERFORMANCE CRITERIA

ELEMENT These describe the key outcomes which make up workplace function	PERFORMANCE CRITERIA 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. Prepare to formulate dairy feed	1.1 Feed formulation <i>tools, equipment, materials and supplies</i> are identified and assembled as per the work instructions based on the feed formulation manual, the code of practice for the animal feed industry and feed standards. 1.2 Personal Protection Equipment and Apparel are identified and gathered based on job requirements and the code of hygiene practice for milk and milk products. 1.3 Feed formulation <i>ingredients</i> are assembled based on feed formulae 1.4 Ingredients samples are collected according to <i>sampling procedures</i> 1.5 Packaging materials are labeled as per <i>feed manufacturing guidelines</i> 1.6 Occupational safety and health procedures are adhered to according to work place procedures and Public Health Act Cap 254. 1.7 Environmental protection measures are observed according to <i>environment protection regulations</i> and work place procedures
2. Formulate dairy feed	2.1 Feed ingredients are prepared and processed according to feed manufacturing guidelines and the code of practice for the animal feed industry.

	<p>2.2 Prepared feed ingredients are mixed as per feed manufacturing guidelines and the code of practice for the animal feed industry</p> <p>2.3 Mixed rations are packaged as per feed manufacturing guidelines and the code of practice for the animal feed industry</p> <p>2.4 Feed is stored in accordance with animal feed manufacturing guidelines and the code of practice for the animal feed industry</p>
3. Evaluate dairy feed formulation	<p>3.1 Mixed ration samples are collected according to sampling procedures</p> <p>3.2 Errors are detected and reported based on workplace policy.</p>
4. Complete dairy feed formulation	<p>4.1 Feed handling equipment and structures are cleaned in accordance with good manufacturing practices, work place policy and the code of practice for the animal feed industry.</p> <p>4.2 Reusable materials and supplies are stored based on the manufacturer's instructions and the code of practice for the animal feed industry</p> <p>4.3 Non-recyclable waste materials are disposed off in due regard to work place policy.</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.

Variable	Range
1. Tools and equipment includes but not limited to	<p>Tools and equipment required for:</p> <ul style="list-style-type: none"> • Feed sampling • Feed processing • Feed mixing • Packaging and labelling • Weighing
2. Materials and supplies	<p>Supplies and materials required for:</p> <ul style="list-style-type: none"> • Packaging • Cleaning

includes but not limited to	
3. Ingredients includes but not limited to	<ul style="list-style-type: none"> • Feedstuff • Additives
4. Sampling procedures includes but not limited to	<ul style="list-style-type: none"> • Random sampling • Systematic sampling • Purposive sampling
5. Feed manufacturing guidelines includes but not limited to	<p>Animal feed regulatory authority's specifications on;</p> <ul style="list-style-type: none"> • Manufacturing procedures • Nutrient content • Processing procedures • Mixing procedures • Ingredient inclusion levels • Labeling • Storage
6. Environment protection regulations includes but not limited to:	<ul style="list-style-type: none"> • Public Health Act • EMCA 1999 • OSH Act 2007

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:

- Manual mixing skills
- Feed processing and mixing machine operation skills

Required knowledge

The individual needs to demonstrate knowledge of:

- Types of feeds and feedstuff
- Animal feed processing procedures
- Feed mixing methods
- Importance of food safety

- Relevant standards and regulations in the animal feed industry
- Occupational safety and health regulations

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	<p>Assessment requires evidence that the candidate:</p> <ul style="list-style-type: none"> 1.1 Applied food safety measures to formulate dairy feed 1.2 Prepared and processed feedstuff in correct form of presentation 1.3 Thoroughly mixed feed ingredients 1.4 Packaged and stored feed as recommended 1.5 Labeled feed packages correctly 1.6 Adhered to occupational safety and health procedures 1.7 Observed laid down environmental protection measures at the work place 1.8 Documented dairy feed formulation and food safety records
2. Resource Implications	<p>The following resources must be provided:</p> <ul style="list-style-type: none"> 2.1 Assessment location / workplace 2.2 Personal Protective Equipment and Apparel
3. Methods of Assessment	<p>Competency may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Observation 3.2 Oral questioning 3.3 Written test 3.4 Portfolio of Evidence 3.5 Interview 3.6 Third party report
4. Context of Assessment	<p>Competency may be assessed on the job, off the job or a combination of these. 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 sector, workplace and job roles is recommended.</p>