

FORMULATE DAIRY FEED

UNIT CODE: 0811 341 07A

TVETCDACC UNIT CODE: DA/OS/FM/CR/03/4/MA

UNIT DESCRIPTION

This unit specifies the competencies required to formulate dairy feed. It involves preparing to formulate dairy feed, formulating dairy feed, evaluating dairy feed formulation and completing dairy feed formulation.

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. Prepare to formulate dairy feed	1.1 Feed formulation <i>tools, equipment, materials</i> and <i>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 Ingredients are sampled for laboratory analysis according to <i>sampling procedures</i> 1.4 Packaging materials are labeled as per <i>feed manufacturing guidelines</i>
2. Formulate dairy feed	2.1 Feed ingredients are prepared and processed according to

	<p>feed manufacturing guidelines and the code of practice for the animal feed industry.</p> <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 rations are sampled for evaluation according to sampling methods</p> <p>3.2 Errors are detected, reported and rectified based on workplace policy and feed formulation guidelines.</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 of in due regard to environment protection regulations.</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 may include but not limited to:	Tools and equipment required for: <ul style="list-style-type: none"> • Feed sampling • Feed processing • Feed mixing • Packaging and labelling • Weighing
2. Materials and supplies may include but not limited to:	Supplies and materials required for: <ul style="list-style-type: none"> • Packaging • Cleaning
3. Ingredients may include but not limited to:	<ul style="list-style-type: none"> • Feedstuff • Additives
4. Sampling procedures may include but not limited to:	<ul style="list-style-type: none"> • Random sampling • Systematic sampling • Purposive sampling
5. Feed manufacturing guidelines may include but not limited to:	Animal feed regulatory authorities' specifications on; <ul style="list-style-type: none"> • Manufacturing procedures • Nutrient content • Processing procedures • Mixing procedures • Ingredient inclusion levels • Labeling • Storage

<p>6. Environment protection regulations includes but not limited to:</p>	<ul style="list-style-type: none"> • Public Health Act • EMCA 1999 • OSH Act 2007
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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:

- Sampling skills
- Troubleshooting
- Feed quality evaluation
- Judging skills
- Manual mixing skills
- Feed processing and mixing machine operation skills

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Required knowledge

The individual needs to demonstrate knowledge of:

- Types of feeds and feedstuff
- Feed and feedstuff sampling procedures
- Animal feed processing procedures
- Importance of food safety
- Relevant standards and regulations in the animal feed industry
- Feed mixing methods
- Guidelines of feed manufacturing
- 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 mixed feed ingredients 1.4 Rectified errors detected based on workplace policy and feed formulation guidelines. 1.5 Sampled for mixed rations for evaluation 1.6 Packaged and stored Feed as recommended 1.7 Labeled feed packages correctly 1.8 Cleaned feed handling equipment and structures 1.9 Stored Rrusable materials and supplies 1.10 Disposed of Non-recyclable waste materials in due regard to environment protection regulations. 1.11 Observed occupational safety and health measures in the working environment 1.12 Observed laid down environmental protection measures at the work place 1.13 Documented dairy feed formulation and food safety records.
2. Resource Implications	<p>The following resources should be provided:</p> <ul style="list-style-type: none"> 2.1 Appropriately simulated environment where assessment can take place 2.2 Access to relevant workplace assessment environment 2.3 Resources relevant to the proposed assessment activity or tasks

3. Methods of Assessment	<p>Competency may be assessed through:</p> <ul style="list-style-type: none"> 3.1 Observation 3.2 Product analysis 3.3 Oral questioning 3.4 Third party report 3.5 Portfolio of Evidence 3.6 Interview
4. Context of Assessment	<p>Competency may be assessed:</p> <ul style="list-style-type: none"> On-the-job Off-the –job During Industrial attachment
5. Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job roles is recommended.</p>