



Australian Government

FBPGRA3002 Apply knowledge of animal nutrition principles to stockfeed product

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FBP Food, Beverage and Pharmaceutical Training Package version 1.0.

Application

This unit of competency describes the skills and knowledge required to identify animal nutrition principles required in stockfeed and confirm these requirements with nutritionists, and other technical and professional staff and customers.

This unit applies to stockfeed operators who are required to have knowledge of animal nutrition principles and the effect of stockfeed on animal performance. This knowledge would be applied in liaison with professional and technical staff on customer requirements and in liaison directly with customers.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Grain processing (GRA)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Determine stockfeed requirements	1.1 Identify target species, animal type and phase of animal growth supported by stockfeed product 1.2 Confirm production purpose of animal raising and range of desired products in consultation with the customer 1.3 Determine particle size, pellet quality and other factors affecting

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	palatability for target animals 1.4 Identify impact of stockfeed on animal performance
2. Evaluate key quality factors affecting stockfeed performance	2.1 Identify feed safety requirements for target species and phase of animal production 2.2 Identify type and proportion of raw materials in stockfeed and their effect on animal performance with advice from professionals 2.3 Determine the purpose of additives on animal performance and stockfeed quality 2.4 Determine effects of processing on stockfeed nutrition quality and animal performance with advice from professionals 2.5 Recognise substitution guidelines, including the effect of substitution on stockfeed performance

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Access and interpret workplace information, including standard operating procedures (SOP), labels, recipes, customer supplied information, and material data safety sheets (MSDS)
Writing	- Record customer requirements and specifications for stockfeed on paper-based and electronic media - Use and apply workplace terminology
Numeracy	- Calculate amounts of stockfeed required according to customer requirements - Sequence information against production processes
Navigate the world of work	- Interpret and follow regulatory requirements and seek clarification or other assistance when required - Identify and describe own skills, knowledge and experience within context of job role - Seek advice and feedback on current work performance
Interact with others	Liaise with professional and technical staff on animal nutrition

Skill	Description
	- requirements of stockfeed • Use oral communication skills and language competence to fulfil the job role as specified by the organisation, including questioning, active listening, asking for clarification and seeking advice from supervisor • Ask questions to clarify understanding or seek further information regarding customer requirements • Recognise personal strengths and challenges associated with interacting with others in the workplace
Get the work done	• Identify resources in the workplace for further information, including nutritionists, other technical and professional specialist and reference materials • Maintain hygiene standards and wear required personal protective equipment • Identify routine problems and implement standard solutions as required

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FBPGRA3002 Apply knowledge of animal nutrition principles to stockfeed product	FDFGR3002A Demonstrate knowledge of animal nutrition principles	Updated to meet Standards for Training Packages	Equivalent unit

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=78b15323-cd38-483e-aad7-1159b570a5c4>

Assessment Requirements for FBPGRA3002 Apply knowledge of animal nutrition principles to stockfeed product

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Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence, on at least one occasion, that the individual has:

- identified target species, animal type and phase of animal growth supported by stockfeed product
- identified and interpreted customer requirements from stockfeed
- related stockfeed type to animal nutrition and production requirements
- liaised with nutritionist and other professional and technical staff on animal nutrition requirements of stockfeed.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- typical nutrition requirements of animals supported by stockfeed, including horses, beef cattle, dairy cattle, pigs, sheep, poultry (both meat and egg production) and marine animals (aquaculture). Knowledge would be restricted to standard daily requirements of main food groups (proteins, carbohydrates etc.), typical daily volume of feed required and type of feed (solid, liquid, plant or animal based)
- how nutritional needs of target animal may vary according to species, gender, health, pregnancy, lactation, age, season, geography, production purpose and form of production and feeding (feedlot, free range, use of stock feed for supplementary or full feeding)
- factors affecting animal acceptance of stockfeed, including palatability and presentation
- range of raw materials typically used in stockfeed, including grains, molasses/liquids, proteins (vegetables and animal), additives (vitamins, minerals and medications) and fibre
- impact of operator-controlled factors on stockfeed quality, including temperatures, moisture, sizing, sieving and liquid additions
- impacts of stockfeed on animal performance, including positive effects on animal performance and effects of incorrect feed on animal safety, animal performance and export contamination.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - a workplace or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - personal protective equipment relevant to providing advice regarding stockfeed products and processes in the workplace
 - sample customer enquiries and orders
 - stockfeed raw materials
- specifications:
 - reference and resource materials about stockfeed products and processes
 - animal nutrition requirement information
 - stockfeed data, formulas/recipes
- relationship (internal and/or external):
 - access to customers, nutritionists or other livestock professionals.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

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