

Modification history

Release	Comments
Release 1	This version released with ACM Animal Care and Management Training Package Version 5.0.

ACMPHR504 ACMEQU5X1	Manage equine nutrition Manage horse nutrition and feeding plans
Application	<p>This unit of competency describes the skills and knowledge to manage the nutritional requirements of horses, including all aspects of feeding plan development, implementation and monitoring, the selection and management of pasture for horses, and responses to nutritional-related disorders and specific needs.</p> <p>The unit applies to individuals who have responsibility for the management of the nutritional requirements of a diverse range of performance horses. It applies to individuals working in all horse industry sectors, including training and competition centres, stud farms, agistment centres and riding schools.</p> <p>Commonwealth and state/territory health and safety, and animal welfare legislation, regulations and codes of practice relevant to interacting with horses apply to workers in this industry. Requirements vary between industry sectors and jurisdictions. .</p> <p>No licensing or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Performance Horse (PHR) Equine (EQU)

Commented [SH1]: Recommend merging this unit (ACMPHR504 *Manage equine nutrition*) with ACMHBR501 *Manage horse nutrition* into a newly designed unit ACMEQU5X1 *Manage horse nutrition and feeding plans*
Refer to revised elements and PCs in blue

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 the nutritional requirements of horses	1.1 Identify credible sources of information on equine nutrition relevant to workplace needs, including scientific and technical literature, historical records and industry practice information 1.2 Analyse research findings to determine credibility, relevance and currency of information 1.3 Determine the nutritional needs of horses of various classes based on research findings relevant to workplace requirements 1.4 Apply relevant research findings to the management of workplace nutrition practices
2. Manage ingredients for horse rations	2.1 Determine suitable nutrients for inclusion in an equine diet according to the individual needs of each horse, availability, quality and cost 2.2 Organise laboratory testing to determine the quality and quantities of ingredients required for ration formulation according to workplace requirements 2.3 Implement safe, secure and hygienic storage of feed and ingredients 2.4 Calibrate measuring equipment and calculate quantities at regular intervals

ACMEQU5X1 Manage horse nutrition and feeding plans

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
3. Formulate and modify effective feeding plans, rations and methods	3.1 Develop a feeding plan to supply nutritional requirements to meet appropriate horse condition, performance and health outcomes 3.2 Formulate rations on the basis of identified nutritional requirements, digestive physiology and anatomy, and availability of feedstuffs 3.3 Implement feeding methods and techniques to support natural feeding behaviours 3.4 Adapt feeding plan to respond to variations in nutritional requirements and seasonal conditions 3.5 Apply a cost-effective approach to sourcing and supplying required nutrients 3.6 Assess and manage the environmental impacts of supplying feedstuffs
4. Monitor and manage the feeding of horses	4.1 Supply rations to horses according to feeding plan schedule and requirements 4.2 Ensure feeding records and feed orders are maintained, monitored and prepared according to workplace requirements 4.3 Monitor the implementation of the program using appropriate measures to ensure the goals of the feeding plan are achieved 4.4 Monitor and document reactions to changes in feed types, ingredients or schedules 4.5 Develop and implement a plan to manage documented adverse reactions to rations 4.6 Monitor, review and record the feeding plan and implement improvements and adjustments as required
5. Evaluate health implications of feeding plans, rations and methods	5.1 Monitor the health of horses for signs of inadequate nutrition or nutrition-related diseases 5.2 Research and implement solutions for identified nutrition-related health problems and seek veterinarian or other professional advice according to the type of problem 5.3 Implement alternative feed regimes, diets or methods to counter the effects of poor nutrition 5.4 Implement strategies to prevent the development of nutrition-related diseases
6. Manage pasture for horses	6.1 Identify and select pasture species on the basis of nutritional value, persistence under grazing by horses, and environmental requirements 6.2 Determine harmful effects of pasture species for various classes of horses, and develop a management strategy to ensure herd health 6.3 Identify and remove plants poisonous to horses from pastures and areas accessed by horses 6.4 Develop and implement a pasture management plan to maximise nutritional value, and minimise negative health and environmental impacts

	Manage horse nutrition (diets?) and feeding plans
1. Determine nutritional requirements of horses	1.1 Access information on equine nutritional requirements, and indicators and consequences of nutrient deficiency and dietary imbalances 1.2 Analyse and calculate the value and composition of available feed and pastures 1.3 Determine nutritional requirements of horses taking into consideration class, life stage, exercise regime and workplace activity 1.4 Assess the nutritional requirements of individual horses

Commented [SH2]: Recommend merging this unit with ACMHBR501 Manage horse nutrition into a newly designed unit ACMEQU5X1 Manage horse nutrition and feeding plans
 Refer to draft/revise elements and PCs in blue

ACMEQU5X1 Manage horse nutrition and feeding plans

2. Develop diets and feeding plans for horses	<p>2.1 Formulate effective feeding plans incorporating rations, schedule and methods</p> <p>2.2 Design feed charts specifying rations for individual horses</p> <p>2.3 Adapt feeding plan to respond to variations in nutritional requirements and seasonal conditions</p>
3. Manage horse pasture grazing	<p>3.1 Analyse the nutritional value of common pasture species and weeds and seasonal changes in availability, digestibility and nutritional value</p> <p>3.2 Monitor and manage chemical control of weeds and toxic plants</p> <p>3.3 Establish grazing practices to optimise horse nutrition and welfare requirements</p> <p>3.4 Monitor grazing practices and plant growth stages to manage pasture plant growth and environmental requirements</p>
4. Manage implementation of horse diets and feeding plans	<p>4.1 Apply a cost-effective approach to sourcing and supplying required nutrients</p> <p>4.2 Implement safe, secure and hygienic storage of feed ingredients</p> <p>4.3 Oversee supply of rations to horses according to feeding plan schedule and requirements</p> <p>4.4 Implement feeding methods and techniques to support natural feeding behaviours</p> <p>4.5 Confirm feeding records and feed orders are maintained, monitored and prepared according to workplace requirements</p>
5. Evaluate horse diets and feeding plans	<p>5.1 Monitor and document reactions to changes in feed types, ingredients or schedules</p> <p>5.2 Monitor horse health for signs of inadequate nutrition or nutrition-related diseases</p> <p>5.3 Develop and implement a plan to manage documented adverse reactions to rations or signs of poor nutrition</p> <p>5.3 Monitor, review and record feeding plans for individual horses and implement improvements and adjustments as required</p>

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	<ul style="list-style-type: none"> Research, interpret and analyse key facts and information about horse nutrition and feed from a range of sources
Writing	<ul style="list-style-type: none"> Prepare logically structured and sequenced feed and nutrition plans and instructions
Numeracy	<ul style="list-style-type: none"> Calibrate measuring equipment and calculate quantities Measure and weigh products used in horse rations and feed programs Use mathematical concepts to calculate nutrient budgets, portions and costs Calculate, sequence and adjust timelines in feeding schedules or plans

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ACMEQU5X1 Manage horse nutrition and feeding plans	AHCPHR504 Manage equine nutrition	Code updated to reflect change of training package	Equivalent unit

ACMEQU5X1 Manage horse nutrition and feeding plans

Links	Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b75f4b23-54c9-4cc9-a5db-d3502d154103
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TITLE	Assessment requirements for ACMEQU5X1 Manage horse nutrition and feeding plans
Performance Evidence	
An individual demonstrating competency must satisfy all of the elements and performance criteria of this unit.	
<p>There must be evidence that the individual has:</p> <ul style="list-style-type: none"> • managed the nutritional requirements and feed program for at least three horses with different nutritional needs, selected from: <ul style="list-style-type: none"> • a foal or yearling • a mare in foal • a performance horse undergoing conditioning/exercise program • senior horse • xxx • yyy • zzz. <p>In doing the above, the individual must have:</p> <ul style="list-style-type: none"> • assessed horse body condition score • determined and formulated feeding plans for each horse • organised supply and storage of rations • identified and managed nutrition-related health disorders • managing pastures for horses to maximise nutritional content, control weeds and minimise environmental degradation. 	
Original PE	
<p>There must be evidence that the individual has:</p> <ul style="list-style-type: none"> • managed the nutritional requirements and feed program for a workplace that includes at least three horses with different nutritional needs, including: <ul style="list-style-type: none"> • identifying and evaluating feed types, pasture species and plants poisonous to horses • determining the nutritional needs of individual horses • formulating, supplying and storing rations for a range of horses to meet identified nutritional needs • assessing horse body condition score • undertaking independent research on equine nutritional and health topics and evaluating findings for credibility and relevance • formulating diets and managing equine nutrition based on knowledge of anatomy and physiology and relevant research findings • identifying and managing nutrition-related health disorders • managing pastures for horses to maximise nutritional content, control weeds and minimise environmental degradation • complying with regulatory requirements and workplace and industry procedures and practices relevant to role and managing horse nutrition, including: <ul style="list-style-type: none"> • animal welfare and prevention of cruelty to animals • work health and safety (WHS) • biosecurity <p>environmental sustainability.</p>	
Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • main structures and functions of the digestive system and the sites and mechanisms of digestion • rate of passage of different nutrients and feedstuffs • feed types and sources, including suppliers • feeding systems and storage methods • ration formulation methods • key nutritional needs of a wide range of horse classes, breeds, ages and categories 	

Commented [SH3]: Different classes?

Commented [SH4]: Suggested revised PE - TBC - please check

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Knowledge Evidence	
<ul style="list-style-type: none"> • nutrient classes and their values • credible sources of information regarding equine nutrition, feeding and related health issues • process for organising laboratory testing and interpreting results • individual horse feeding behaviour • herd behaviour as it relates to supplying and managing nutrition • nutrition-related health and behaviour impacts • pasture species and plants poisonous to horses • pasture management techniques and the environmental impacts of horse grazing behaviour on pastures • key requirements of work health and safety regulations and guidelines relating to: <ul style="list-style-type: none"> • risk assessment, control and review • safe horse handling techniques • personal protective equipment • key requirements of animal welfare standards, policies and procedures relevant to the safe, humane and ethical care of horses • key requirements of biosecurity standards, policies and procedures relevant to feeding horses. 	
Assessment Conditions	
<p>Assessment of the skills in this unit of competency must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • an equine workplace or an environment that accurately represents workplace conditions • resources, equipment and materials: <ul style="list-style-type: none"> • various horses from different classes with different nutritional needs as specified in the performance evidence • range of feeds and pastures for horses • specifications: <ul style="list-style-type: none"> • information about different feeds and supplements, or technology to access the information. <p>Training and assessment strategies must show evidence of the use of guidance provided in the <i>Companion Volume: User Guide: Safety in Equine Training</i>.</p> <p>Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.</p>	
Links	<p>Companion Volumes, including Implementation Guides, are available at VETNet: https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=b75f4b23-54c9-4cc9-a5db-d3502d154103</p>

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