



Australian Government

AHCLSK514 Design livestock effluent systems

Release: 1

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Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Release 11.0.

Application

This unit of competency describes the skills and knowledge required to design and plan livestock effluent systems.

The unit applies to individuals who apply specialised skills and knowledge to design livestock effluent systems, take personal responsibility and exercise autonomy in undertaking complex work. They analyse and synthesise information, and analyse, design and communicate solutions to sometimes complex problems.

All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace, and animal welfare legislation, regulations, standards and guidelines, and sustainability and biosecurity practices.

This unit applies to livestock production managers or specialists who design effluent and disposal systems.

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

Pre-requisite Unit

Nil

Unit Sector

Livestock (LSK)

Elements and Performance Criteria

Elements	Performance Criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Determine the	1.1 Determine planning parameters that affect the design of effluent

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feasibility of an effluent management system	management systems 1.2 Identify and assess statutory, local government and environment authority requirements for effluent disposal 1.3 Assess the environmental impacts of livestock effluent disposal 1.4 Evaluate effluent recycling options according to workplace plan 1.5 Analyse effluent processing options on the basis of their merits and suitability for the environment 1.6 Obtain effluent management information from effluent management specialists 1.7 Assess and determine an effluent management system based on a cost-benefit analysis
2. Design an effluent management system	2.1 Calculate the volume of livestock effluent using information collected from workplace plans, industry and workplace production data and other sources 2.2 Calculate the volume of water flowing into the effluent management system 2.3 Calculate storage requirements 2.4 Obtain professional advice appropriate to the complexity of the task and the financial risk involved 2.5 Ensure plan and layout include provision of access and availability and the incorporation of technological innovations 2.6 Identify hazards and risks associated with work activities, and implement control measures according to workplace health and safety procedures 2.7 Produce detailed livestock effluent management system design according to workplace business plan, production plan and management plan requirements

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	Identify and interpret textual and numerical information from a range of sources to identify relevant and key information regarding design requirements for livestock effluent systems, including statutory, local government and environment authority requirements
Writing	Use clear language, accurate industry terminology and logical structure to prepare and document a livestock effluent management system design
Oral communication	- Initiate discussions with effluent management specialists, using clear language and standard industry terminology to discuss and obtain effluent management information - Respond to questions, clarify information and seek advice
Numeracy	- Calculate livestock effluent volume, water flow and storage requirements associated with livestock effluent management system design - Assess livestock effluent management systems based on a cost-benefit analysis

Unit Mapping Information

Code and title current release	Code and title previous release	Comments	Equivalence status
AHCLSK514 Design livestock effluent systems	AHCLSK506 Design livestock effluent systems	Minor changes to application Minor changes to elements and performance criteria Foundation skills added Assessment requirements updated	Equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>