



Australian Government

AHCLSK506 Design livestock effluent systems

Release: 1

AHCLSK506 Design livestock effluent systems

Modification History

Release Number	TP Version	Comments
1	AHCv1.0	Initial release

Application

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

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

All work must be carried out to comply with workplace procedures, work health and safety, animal welfare and biosecurity legislation and codes of practice and sustainability practices.

This unit applies to individuals who take personal responsibility and exercise autonomy in undertaking complex work. They analyse design and communicate solutions to sometimes complex problems.

No occupational 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

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Determine the feasibility of an effluent management system	1.1 Assess and determine planning parameters that affect the design of effluent management systems 1.2 Assess and determine statutory, local government and environment authority requirements for effluent disposal 1.3 Assess and determine the environmental impacts of livestock

Element	Performance criteria
	effluent disposal 1.4 Evaluate effluent recycling options in conjunction with the enterprise plan 1.5 Analyse effluent processing options on the basis of their merits and suitability for the environment 1.6 Obtain information from effluent management specialists on all relevant aspects of effluent management 1.7 Assess and determine an effluent management system on the basis of a cost benefit analysis
2. Design an effluent management system	2.1 Calculate the volume of livestock effluent using information collected from enterprise plans, industry and enterprise 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, availability and the incorporation of technological innovations 2.6 Assess and evaluate work health and safety hazards and risks, establish safe systems, and maintain records 2.7 Ensure effluent management system design reflects the requirements of the enterprise business plan, production plan and management plan

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

This unit is equivalent to AHCLSK506A Design livestock effluent systems

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCLSK506 Design livestock effluent systems

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- assess the effectiveness of a range of effluent management systems to meet the requirements of statutory, local government and environment authorities for effluent disposal
- conduct cost benefit analysis of livestock effluent management systems to select a suitable effluent management system
- design and plan the layout of an effluent system that meets environmental standards and enterprise requirements
- design an effluent management system
- incorporate the enterprise work health and safety and environmental management policies into the plan

Knowledge Evidence

The candidate must demonstrate knowledge of:

- types, functions, characteristics, disadvantages and advantages of effluent management systems (including storage, recycling, processing and disposal)
- regulatory requirements, including environmental, sustainability work health and safety and biosecurity requirements, industry standards, industry and enterprise production parameters, data and information for the design and planning of effluent management systems
- uses and processes for cost benefit analyses, and their applications in relation to livestock production and effluent management
- types and use of information required, and methods for the assessment and determination of effluent production, output and volume for livestock enterprises
- effects and impacts of different livestock production systems on the design and planning of effluent management systems

- types and use of information and advice from other professions or industry sectors that are relevant to livestock enterprises in the design of effluent management systems, including engineering and financial professions

Assessment Conditions

Competency is to be assessed in the workplace and/or simulated environment that accurately reflects performance in a real workplace setting.

Assessors must satisfy current conditions for RTOs.

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