



Australian Government

Department of Education, Employment and Workplace Relations

PRMWM57A Develop landfill rehabilitation plan

Release: 1

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Modification History

Not Applicable

Unit Descriptor

Unit descriptor

This unit of competency describes the development of a landfill rehabilitation plan within local provenance guidelines for a client. Those who work or who expect to work in a supervisory capacity would be advised to undertake this unit. It could also be useful for small business.

This unit is related to PRMWM56A Implement landfill rehabilitation plan.

Application of the Unit

Not Applicable

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Not Applicable

Employability Skills Information

Not Applicable

Elements and Performance Criteria Pre-Content

Not Applicable

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

- | | |
|--|--|
| 1 Review and evaluate landfill rehabilitation strategies to determine possible options | 1.1 Review <i>landfill rehabilitation</i> strategies to determine all site development options, including <i>catchment devices</i> , <i>drain and berm mechanisms</i> to minimise <i>erosion</i>
1.2 Assess <i>feasibility of landfill rehabilitation</i> strategies to ensure development of a realistic and achievable plan which conforms to <i>client</i> , <i>OHS</i> and <i>relevant legislative</i> requirements
1.3 Consult and involve <i>client</i> where appropriate in the development of a <i>landfill rehabilitation plan</i> with impacting environmental, legislative and OHS issues |
| 2 Develop landfill rehabilitation plan | 2.1 Consult local government authorities regarding the <i>local provenance guidelines</i> pertaining to the development of a <i>landfill rehabilitation plan</i>
2.2 Produce a landfill rehabilitation plan that fully addresses the construction of <i>soil profile</i> to ensure that the <i>contaminated</i> material is stabilised in accordance with OHS, legislative and environmental guidelines
2.3 Produce a landfill rehabilitation plan that details all aspects of implementation, including OHS, environmental and legislative requirements, process changes, education, resource requirements, timelines, schedules and targets
2.4 Ensure that landfill rehabilitation plan includes all aspects of client's environmental aims, where appropriate |
| 3 Document plan | 3.1 Document landfill rehabilitation plan in accordance with <i>company requirements</i> and relevant legislation |
| 4 Present plan | 4.1 Present landfill rehabilitation plan to client in businesslike manner, in accordance with company requirements using suitable aids where appropriate
4.2 Explain benefits, rationale and implementation of the landfill rehabilitation plan
4.3 Provide opportunities for client questions and discussion |

Required Skills and Knowledge

Refer to Evidence Guide

Evidence Guide

EVIDENCE GUIDE

Critical aspects of competency

- Effectively reviews landfill rehabilitation strategies to determine options.
- Accurately undertakes feasibility analysis of strategies.
- Consults with client in plan development where appropriate.
- Presents landfill rehabilitation plan.

Knowledge needed to achieve the performance criteria

Knowledge and understanding are essential to apply this unit in the workplace, to transfer the skills to other contexts, and to deal with unplanned events. The knowledge requirements for this unit are listed below.

- Features for landfill rehabilitation plan.
- Impact of recommendation on client processes.
- Lifecycle assessment.
- Landfill analytical methods.
- Landfill rehabilitation strategies available.
- Nature and the significance of waste minimisation hierarchy.
- Company requirements.
- Occupational health and safety requirements.
- Duty of care in provision of services.
- Relevant industry standards.
- Relevant legislation.
- Relevant environmental regulations.
- OHS hierarchy of control.

Specific skills needed to achieve the performance criteria

To achieve the performance criteria, some complementary skills are required. These are:

- communication including liaison, consultation, facilitation, conciliation, report writing, interpersonal, giving information and presentation
- reading and interpreting data and information
- development of strategies
- methodical organisation of work
- brainstorming
- feasibility analysis
- prioritising
- computer skills
- report preparation.

Other units of competency that could be assessed with this unit

This unit could be assessed on its own or in combination with other units relevant to the job function, for example all the units covering development of waste management plans and environmental policies at a similar level may be able to be assessed in conjunction.

Where assessment covering a cluster of units is to be conducted, it may be useful to assess the units together as far as practicable. This may be most useful when an experienced applicant is being assessed for the purpose of recognition of current competency.

Resources required to assess this unit

The following resources should be available:

- landfill rehabilitation assessment data
- landfill rehabilitation strategy options
- client requirements
- relevant environmental protection legislative requirements
- plan documentation tools (e.g. computer, word-processing software)
- case studies.

Gaining evidence to assess this unit

For valid and reliable assessment of this unit, the competency should be demonstrated over a period of time and be observed by the assessor (or assessment team working together to conduct the assessment). The competency is to be demonstrated in a range of situations, which may include customer/workplace interruptions and involvement in related activities normally experienced in the workplace.

Evidence of competency is best obtained by observing activities in the field and reviewing the development of a landfill rehabilitation plan under normal industry operating conditions. If this is not practicable, observations in realistic simulated environments may be substituted.

Consistency in performance

Assessment requires that strategies meet the objectives of clients and comply with industry expectations in the particular client environment. If the environment is narrowly defined or is not representative of industry needs, it will be necessary to assess the unit within a variety of waste management environments or different client needs to assess competency in the development of a landfill rehabilitation plan.

Oral questioning or written assessment and hypothetical situations (scenarios) may be used to assess underpinning knowledge. (In assessment situations where the candidate is offered a preference between oral questioning and written assessment, questions are to be identical.)

Supplementary evidence may be obtained from relevant authenticated correspondence from existing supervisors, team leaders or specialist training staff.

Note: All practical demonstrations must adhere to the safety and environmental regulations relevant to each state or territory.

Key competency levels

There are a number of processes that are learnt throughout work and life that are required in all jobs. They are fundamental processes and generally transferable to other work functions. Some of these are covered by the key competencies, although others may be added.

Information below highlights how these processes are applied in this competency standard.

- | | | |
|------------------------------|---|---|
| 1 Perform the process | 2 Perform and administer the process | 3 Perform, administer and design the process |
|------------------------------|---|---|

How can communication of ideas and information be applied?	2	Discuss strategies with relevant personnel.
How can information be collected, analysed and organised ?	2	Gather and analyse information from a number of sources (including regulatory sources, relevant personnel and company specifications).
How are activities planned and organised ?	2	Develop landfill rehabilitation plan and organise presentation.
How can teamwork be applied?	2	Work cooperatively with colleagues to prepare the waste management plan and conduct a professional presentation.
How can the use of mathematical ideas and techniques be applied?	1	Conduct and document appropriate mathematical calculations.
How can problem-solving skills be applied?	2	Identify and solve risk elements in the landfill rehabilitation plan.
How can the use of technology be applied?	1	Demonstrate understanding of technological principles and physical skills to use appropriate equipment.

Range Statement

RANGE STATEMENT

The range statement links the required knowledge and organisational and technical requirements to the workplace context. It describes any contextual variables that will be used or encountered when applying the competency in work situations. It allows for different work practices and work and knowledge requirements as well as for differences between organisations and workplaces. The following variables may be present for this particular unit. **Catchment devices** may include diversion channels, holding structures (banks, drains and dams) and sediment dams.

Client includes government agency, local council, manufacturer, private and public companies, and residents/ratepayers.

Company requirements are found in briefing papers, letters, quality assurance documents, tender/contract documents and verbal or written instructions.

Contamination may include:

- exposure to sunlight
- infestation
- mixing with other waste types
- rot or mould
- waterlogging.

Details of landfill rehabilitation plan include but are not limited to:

- feasibility
- implementation
- landfill rehabilitation finding
- landfill rehabilitation strategies
- plans
- recommendations.

Drain and berm may be concrete, plastic, rock and soil.

Drain mechanisms may include berm, flora coverage (grasses and small bushes) and netting.

Environmental issues may include:

- environmental incidents
- minimisation of waste
- recycling
- reduction in use of non-renewable resources
- relevant environmental protection legislation
- resource efficiency
- voluntary environmental agreements entered into with external organisations.

Erosion may be water run-off and wind.

Feasibility of strategies involve consideration of:

- catchment systems
- commitment
- company requirements
- compliance with relevant legislation
- cost-benefit analysis
- costs
- draining methods
- dust suppression procedures
- fertiliser characteristics and application methods
- flora soil and nutrient requirements
- lead time
- material placement procedures
- principles of erosion and water run-off
- process constraints
- recontouring characteristics
- recontouring procedures
- resource requirements (including equipment, personnel)
- resources available
- seed and plant planting methods
- seed and plant varieties
- soil dynamics
- soil horizon construction methods
- soil profiling methods
- watering principles.

Landfill rehabilitation plan includes but is not limited to:

- advertising

- constructing drains and berms
- education
- employee participation
- planting flora
- process audit
- profiling soil
- recontouring.

Local provenance guidelines include:

- flora planting - what types and where
- issues pertaining to local area
- requirements to work under the guidance of local government officers.

OHS issues may include:

- emergency procedures
- emergency procedure guides
- material safety data sheets (MSDS)
- personal protective equipment
- relevant OHS legislation
- spill kit.

Performance of this unit is carried out in accordance with relevant requirements of the following:

- Australian Standards
- environmental regulations
- legislative requirements
- manufacturers' specifications
- OHS regulations and procedures
- organisational procedures
- relevant state/territory regulations.

Relevant legislation and codes cover state and federal:

- duty of care
- freedom of information
- industrial
- industry codes of conduct
- occupational health and safety legislation
- Australian Standards
- environmental protection legislation
- road laws.

Soil profile may include gravel, topsoil and various grades and types of materials.

Unit Sector(s)

Not Applicable