



Australian Government

RIIWBP501D Implement site waste and by-product management plan

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIIWBP501A Implement site waste and by-product management plan
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit describes a participant's skills and knowledge required to implement a site waste and by-product management plan in the Coal and Metalliferous mining and Extractive.

This unit is appropriate for those working in management or technical specialist roles.

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

Unit Sector

Coal mining

Extractive

Metalliferous mining

Elements and Performance Criteria

1. Plan and prepare site waste and by-product management plan implementation	1.1 Access, interpret and apply site waste and by-product management plan documentation and ensure the work activity is compliant 1.2 Identify and document needs, quantity, quality, source and means of treatment of waste and by-product for production needs of the site 1.3 Investigate, obtain and maintain all appropriate licences 1.4 Ensure the water quality and water-course and ground water contamination are monitored and recorded
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	1.5 Ensure site treatment works for contaminated drainage or development/processing waters are designed and located to satisfy requirements 1.6 Establish management systems with appropriate inlet/outlet works and means of improving the natural settlement process 1.7 Plan and organise work schedules for operational best practice associated with managements systems and water quality specifications
2. Maintain tailing, waste and by-products disposal and water recycling operations	2.1 Ensure site water is treated for reuse in operations to meet environmental and quality standards efficiently 2.2 Undertake and record regular inspections of the water recycling system 2.3 Arrange audits of the water recycling system by internal/external auditors 2.4 Plan, organise and supervise the reuse or management of tailings, waste and by-products
3. Construct and maintain dam systems	3.1 Plan and incorporate short and long term dam requirements into the site management plan 3.2 Ensure the design and construction of dam systems meets requirements 3.3 Undertake and document regular inspections of dams 3.4 Ensure techniques to minimise and/or recycle tailings are incorporated into dam construction 3.5 Encourage safe work practices 3.6 Ensure best practice techniques in the design and construction of dams are considered and incorporated and ensure dams meet all relevant requirements 3.7 Ensure the de-commissioning of dams is undertaken and the necessary approvals are attained

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIIWBP501A Implement site waste and by-product management plan

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIIWBP501D Implement site waste and by-product management plan

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies relevant legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient implementation of site waste and by-product management plans including:
 - researching waste and by-product requirements
 - monitoring, appraising and reporting on operations
 - management of people and processes
 - preparation of capital equipment proposal
 - applying operating budget preparation requirements
 - analysing and reviewing systems
 - implementing projects and tasks management
 - coordinating resources – human, financial and physical
 - applying equipment and maintenance systems management
 - evaluating new and used equipment
 - applying operating cost controls
 - applying performance audits
 - identifying and applying tender specifications
 - applying negotiation techniques and contract finalisation
 - implementing change management
 - identifying, accessing and using appropriate technologies

- management report preparation and presentation
- demonstrates completion of the implementation of site waste and by-product management plans that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - investigating, obtaining and maintaining licences
 - completing the design and location process for site treatment works
 - identifying, designing and implementing management systems to improve natural settlement process
 - identifying, documenting and communicating work schedules
 - completing site water treatment for reuse
 - scheduling, completing and recording inspections of the water recycling systems and dams
 - identifying, appraising and using techniques for the design and construction of dams

Knowledge Evidence

The candidate must demonstrate knowledge in implementing a site waste and by-product management plan through:

- identifying and complying with mine site operations
- identifying mine site products and services
- identifying mine site plant and equipment
- identifying and applying team management techniques

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,

- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,
- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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