



Australian Government

RIISRM502E Design stockpile formations and reclaiming systems

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 7.0.

Application

This unit describes the skills and knowledge required to design stockpile formations and reclaiming systems in coal mining, metalliferous mining and extractive industries. It involves designing stockpile configurations, drainage and reclaiming systems and establishing and implementing dust control measures.

The unit applies to those working in management or technical specialist roles. They generally monitor a broad range of operational activities in their area of responsibility and are responsible for monitoring a safe work environment.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories and industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Coal mining

Extractive

Metalliferous mining

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to design stockpile formations and reclaiming systems	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply stockpiling and reclaiming systems documentation and confirm the work activity is compliant 1.3 Analyse and document organisation goals, objectives and strategies for stockpile management 1.4 Select and wear personal protective equipment

ELEMENT	PERFORMANCE CRITERIA
	according to site requirements 1.5 Investigate and analyse worksite environments and develop options, strategies and anticipated outcomes 1.6 Evaluate cost and efficiency of the different stock piling system configurations available 1.7 Identify and implement statutory requirements relating to work activities
2. Develop stockpile formations and reclaiming systems	2.1 Design stockpile formations with appropriate drainage system according to job and site requirements 2.2 Design reclaim systems to match stockpile configuration according to job and site requirements 2.3 Match load mechanisms to stockpile requirements according to job and site requirements 2.4 Design and install dust control measures according to job and site requirements 2.5 Identify potential hazards and environmental issues, implement control measures within scope of own role and escalate where required 2.6 Confirm a program to satisfy identified stockpiling training needs is implemented
3. Monitor stockpile formations and reclaiming systems	3.1 Instruct operators on the expected outcomes and safe work procedures 3.2 Monitor stockpiling operations according to designed systems 3.3 Monitor material removal from stockpiles according to job and site requirements 3.4 Assess and reconcile stock quantities
4. Establish audit and review of systems	4.1 Establish procedures to evaluate and confirm system and equipment compliance with statutory and site requirements 4.2 Identify and assess stockpile system and equipment requirements and incorporate these into planning processes 4.3 Establish procedures to confirm currency and compliance of stockpile formations and reclaiming systems 4.4 Develop and implement a system for recording and reporting stockpile and equipment information 4.5 Audit the stockpile training program for currency and relevance 4.6 Develop and implement procedures for incorporating

ELEMENT	PERFORMANCE CRITERIA
	feedback into the audit and review system 4.7 Audit emergency response and evacuation systems, plans and procedures for compliance with site requirements 4.8 Develop and implement procedures for response to instances of non-compliance and other discrepancies that are revealed by audit

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Numeracy	Calculates resourcing requirements, performs mathematical calculations and applies mathematical and scientific laws and theorem
Oral communication	Conveys information and requirements clearly and listens actively
Reading	Identifies and interprets relevant information from workplace procedures, documentation and legislation
Writing	Prepares specific information that complies with requirements, using sector-specific vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIISRM502D Design stockpile formations and reclaiming systems.

Links

Companion Volume Implementation Guide is found on VETNet -

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