



Australian Government

RIISRM304E Maintain stockpiles

Release: 1

RIISRM304E Maintain stockpiles

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 maintain stockpiles in coal mining, metalliferous mining and extractive industries. It involves maintaining stockpile structure and battering angle.

The unit applies to those working in operational or supervisory roles. They generally perform 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 maintain stockpiles	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply stockpiling operations documentation and confirm the work activity is compliant 1.3 Obtain and interpret geological and survey data 1.4 Select and wear personal protective equipment according to site requirements 1.5 Identify potential hazards and environmental issues, implement control measures within scope of own role and

ELEMENT	PERFORMANCE CRITERIA
	escalate where required 1.6 Communicate work activities with others within scope of own role 1.7 Confirm stockpile boundaries and signage are erected 1.8 Access and apply safety procedures throughout the work and confirm safety of personnel, plant and equipment according to site requirements
2. Suppress dust and maintain stockpile integrity, access roads and bunds	2.1 Dump and move stockpile material to maintain appropriate battering angle of stockpile and prevent slumping according to site and job requirements 2.2 Inspect stockpile structure and surrounding area with visual checks to assess the safety and progress of stockpile formation 2.3 Inform appropriate personnel of any spillage and manage according to site and job requirements 2.4 Identify, remove and dispose of any contaminants from stockpile 2.5 Turn stockpile material according to site and job requirements 2.6 Maintain stockpile structure to prevent dust creation and unwanted material movement 2.7 Adjust stockpiling activities according to weather conditions and dust suppression policy 2.8 Maintain stockpile access roads free from spillages and obstructions, and confirm equipment movement to and from stockpiles is not restricted according to site requirements 2.9 Maintain safety and condition of bunds according to site requirements
3. Carry out post-operational procedures for maintaining stockpiles	3.1 Conduct inspection and fault finding according to manufacturer specifications and site requirements 3.2 Carry out operational maintenance, servicing, lubricating and housekeeping tasks according to manufacturer specifications and site requirements 3.3 Inspect structures and components with visual checks for fault conditions, wear and need of repair or replacement 3.4 Process written records and reports according to site requirements

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 basic measurements including mass and dimensions
Oral communication	Conveys information and requirements clearly and listens actively
Reading	Identifies and interprets information from workplace documentation
Self-management	Monitors and minimises own exposure to worksite risks and hazards during activities
Writing	Completes maintenance records using sector specific vocabulary, grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIISRM304D Maintain stockpiles.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for RIISRM304E Maintain stockpiles

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- maintain stockpiles on at least two occasions, including:
 - inspecting and preparing work areas
 - identifying hazards and implementing hazard control measures
 - confirming and implementing barriers and signage
 - carrying out inspection of stockpiles and surrounding areas
 - dumping and moving stockpile materials
 - maintaining stockpile structure and battering angle.

During the above, the candidate must:

- locate and apply relevant documentation, policies and procedures
- implement the requirements, procedures and techniques to maintain stockpiles, including:
 - interpreting and applying work instructions
 - selecting and using required tools and equipment
 - wearing required personal protective equipment
 - accessing, interpreting and applying technical information
 - identifying and applying diagnostic techniques
- work effectively with others to undertake and complete maintenance of stockpiles to meet required outcomes, including:
 - preparing for and organising work activities to meet task requirements
 - using communication techniques required to convey information to others
 - maintaining written and verbal reporting requirements and procedures
 - communicating to others of work activity and exclusion zones.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- legislative requirements for maintaining stockpiles
- policies, procedures and documentation required to maintain stockpiles, including those relating to:
 - bund construction, drainage and stockpile maintenance
 - environmental protection, requirements and constraints
 - fire, accident and emergency
 - hazardous goods
 - personal protective equipment
 - site operational, quality and communication requirements
 - site product characteristics
 - stockpile management
 - stockpile safety, including signage requirements
 - wet and dry working
 - work health and safety
- techniques and procedures for equipment required to maintain stockpiles, including for:
 - pre-start and start-up
 - operation
 - maintenance, including lubricating and servicing
 - shutdown
 - housekeeping
 - emergency signals
- characteristics, requirements, technical capabilities and limitations of plant and equipment required for stockpiling
- geotechnical risks associated with working around stockpiles
- types of risks and hazards involved in maintaining stockpiles, including those relating to spills
- techniques for interpreting:
 - geological and survey data
 - stockpile indicator readings
- principles of contamination
- bund construction, drainage and stockpile maintenance procedures
- appropriate battering angles of stockpiles and methods to prevent slumping.

Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:

- personal protective equipment
- an environment where stockpile maintenance is required
- equipment required for maintaining stockpiles
- simulated or actual documentation of work requirements and reports
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes directly related to the industry sector for which it is being assessed; and,
- confirm consistent performance can be applied in a range of relevant workplace circumstances.

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory regulatory standards as set out in the Standards for Registered Training Organisations 2015/Australian Quality Training Framework mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence outlined in this unit of competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 year
	2	2 years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 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.	

*Guidance on simulated environments has been stipulated in the RII implementation guide located on VETNet.

**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 a minimum number of site assessments as determined by the relevant industry sector, across various locations.

***While a unit of competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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