



Australian Government

RIISRM301E Blend stockpile materials

Release: 1

RIISRM301E Blend stockpile materials

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 blend stockpile materials in coal mining, metalliferous mining and extractive industries. It involves monitoring the blending process and confirming that the correct grades of minerals are selected.

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.

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

Unit Sector

Coal mining

Extractive industries

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 blend stockpile materials	1.1 Obtain, interpret and confirm work requirements 1.2 Access, interpret and apply blending of stockpile material documentation and confirm the work activity is compliant 1.3 Complete start up checks and prepare work area according to work requirements 1.4 Identify potential hazards and environmental issues, implement control measures within scope of own role and escalate where required

ELEMENT	PERFORMANCE CRITERIA
	1.5 Select and wear personal protective equipment according to site and work requirements 1.6 Select appropriate dust suppression and extraction methods for work requirements 1.7 Identify and locate correct material grade according to stockpile plan 1.8 Communicate work requirements to others 1.9 Obtain and interpret emergency procedures and identify steps required to respond to emergencies
2. Blend materials	2.1 Select quantity and grade of material, and use blending techniques according to job requirements 2.2 Check required blend of minerals is achieved 2.3 Monitor surrounding site and access roads, and check for contamination 2.4 Monitor blending process and confirm correct grades of minerals are selected 2.5 Identify any contaminants and follow site contaminant management procedures 2.6 Document process used to remedy contamination in records and reports according to site requirements
3. Carry out post-operational procedures for blending stockpile materials	3.1 Inspect equipment, and determine and report any equipment faults according to site requirements 3.2 Carry out operational maintenance, servicing, lubricating and housekeeping tasks according to manufacturer specifications and site requirements 3.3 Complete 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 specific information from workplace

SKILL	DESCRIPTION
	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 RIISRM301D Blend Stockpile materials.

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 RIISRM301E Blend stockpile materials

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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:

- blend stockpile materials on at least two occasions, including:
 - identifying hazards and implementing hazard control measures
 - using site determined communication system and equipment
 - operating hand tools when blending stockpile materials
 - monitoring the blending process and confirming correct grades of minerals are selected
 - applying diagnostic and troubleshooting techniques to blending of stockpile materials
 - recording issues and reporting activity and any faults, including the process used to remedy or remove reported faults.

During the above, the candidate must:

- locate and apply documentation, policies and procedures required to blend stockpile materials
- implement the requirements, procedures and techniques to blend stockpile materials, including:
 - interpreting and applying work instructions
 - selecting and using the 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 blending stockpile materials 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 blending blend stockpile materials
- policies, procedures and documentation required to blend stockpile materials, including those relating to:
 - blending stockpile materials
 - environmental protection
 - fire, accident and emergency
 - hazardous goods
 - personal protective equipment
 - site operational, quality and communication requirements
 - site product characteristics
 - work health and safety
- techniques and procedures for blending equipment, including for:
 - pre-start and start-up
 - operation
 - shutdown
 - emergency signals
- characteristics, requirements, technical capabilities and limitations of methods for:
 - blending and stockpiling
 - dust suppression and extraction
- environmental requirements and constraints
- geotechnical risks associated with working around stockpiles
- types of risks and hazards involved in blending stockpile materials, including those relating to spills
- techniques for interpreting stockpile indicator readings
- principles of contamination.

Assessment Conditions

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

- include access to:
 - personal protective equipment
 - an environment where blending of stockpile materials is required
 - equipment required for blending of stockpile materials
 - 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

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
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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