

RIIPSM203A Produce pellets

Release: 1



RIIPSM203A Produce pellets

Modification History

Not applicable.

Unit Descriptor

This unit covers the production of pellets in the metalliferous mining industry. It includes pelletising materials, and conditioning pellets for load out. Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Relevant information must be sourced prior to application of the unit.

Application of the Unit

This unit is appropriate for those working in an operational role at worksites within:

Metalliferous mining

Licensing/Regulatory Information

Refer to Unit Descriptor.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements describe the	Performance criteria describe the performance needed to
essential outcomes of a	demonstrate achievement of the element. Where bold
unit of competency.	italicised text is used, further information is detailed in the
	required skills and knowledge section and the range
	statement. Assessment of performance is to be consistent
	with the evidence guide.

Approved Page 2 of 9

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA	
1. Pelletise materials	1.1. Access, interpret and apply <i>compliance</i> documentation relevant to the work activity	
	1.2. <i>Monitor</i> and maintain required pressure throughout the bed	
	1.3.Confirm feeder is clear of debris and build-up	
	1.4. Check and confirm condition of pallet seal and wind box to prevent leakage	
	1.5.Deposit pellets across full width of the grate	
	1.6. Operate at full bed depth and grate speed	
	1.7. Identify, address and report <i>environmental</i>	
	issues	
2. Condition pellets for load out	2.1. Maintain maximum depth of pellets on pallets	
	2.2. Regulate temperature to plant requirements	
	2.3. Minimise leakage of air	
	2.4. Crush and screen oversize material	
	2.5.Extract required quantity of <i>material</i> at specified size to satisfy user specifications	
	2.6. Select personal protective equipment appropriate for work activities	
	2.7. Maintain walkways free of spillage and scrap	
	2.8. Follow safe working procedures at all times	
	2.9. Carry out hand-over procedures	

Approved Page 3 of 9

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

Specific skills are required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes the ability to carry out the following, as required to produce pellets:

- apply legislative, organisation and site requirements and procedures for producing pellets
- troubleshoot
- apply precautions necessary for safe working
- use protective clothing and equipment
- apply operating procedures
- report faults
- · recognise limits of authority
- apply team working practices
- communicate information
- use hand and power tools

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly for its application in the various circumstances in which this unit may be used. This includes knowledge of the following, as required to produce pellets:

- breakdown procedures
- contaminant identification
- pelletising process
- emergency procedures
- environmental procedures
- equipment limitations and operating parameters
- hazardous goods procedures and consequences of spills and hazardous goods
- troubleshooting
- isolation procedures
- OHS requirements and procedures
- operational procedures and checks
- pumping system
- dust suppression systems
- hazards associated with by-products
- sampling purpose and procedures
- types of ores
- wet and dry working procedures

Approved Page 4 of 9

Approved Page 5 of 9

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment			
Critical aspects for assessment and evidence required to demonstrate competency in this unit	The evidence required to demonstrate competency in this unit must be relevant to worksite operations and satisfy all of the requirements of the performance criteria, required skills and knowledge and the range statement of this unit and include evidence of the following:		
	 knowledge of the requirements, procedures and instructions for producing pellets implementation of requirements, procedures and techniques for the safe, effective and efficient completion of pellet production working with others to undertake and complete the pellet production in a way that meets all of the required outcomes consistent timely completion of pellet production that safely, effectively and 		
Context of and specific resources for assessment	 efficiently meets the required outcomes This unit must be assessed in the context of the work environment. Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated environment provided it is realistic and sufficiently rigorous to cover all aspects of workplace performance, including task skills, task management skills, contingency management skills and job role environment skills. 		
	 Assessment of this competency requires typical resources normally used in a resources and infrastructure sector environment. Selection and use of resources for particular worksites may differ due to the site circumstances. The assessment environment should not disadvantage the participant. For example, language, literacy and numeracy demands of assessment should not be greater than those required on the job. Customisation of assessment and delivery environment to sensitively accommodate 		

Approved Page 6 of 9

	 cultural diversity. Aboriginal people and other people from a non English speaking background may have second language issues. Where applicable, physical resources should include equipment modified for people with disabilities. Access must be provided to appropriate learning and/or assessment support when required.
Method of assessment	This unit may be assessed in a holistic way with other units of competency. The assessment strategy for this unit must verify required knowledge and skill and practical application using more than one of the following assessment methods:
	 written and/or oral assessment of the candidate's required knowledge observed, documented and/or first hand testimonial evidence of the candidate's: implementation of appropriate requirement, procedures and techniques for the safe, effective and efficient achievement of required outcomes consistent achievement of required outcomes first hand testimonial evidence of the candidate's: working with others to undertake and complete the pellet production
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

Approved Page 7 of 9

Range Statement

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Relevant compliance documentation may include:	 legislative, organisational and site requirements and procedures manufacturer's guidelines and specifications Australian standards Employment and workplace relations legislation Equal Employment Opportunity and Disability Discrimination legislation
Legislation may include Acts and regulations dealing with:	 mining safety and health mine inspection OHS explosives environment
Monitoring the pelletising process may include the checking of:	 blockages and spillages feed rates mineral content moisture levels on stream analysis (OSA) overloads pressures power draw wear and tear emissions levels corrosion
Environmental issues may include:	 drainage dust (dump) emissions flora and fauna hazardous chemicals noise recycling run-off

Approved Page 8 of 9

	•	spills waste management and disposal water quality
Materials are wet and may include:	•	agglomerated material
Pelletising activities include:	•	correct temperature levels correct pellet size minimisation of dust creation pellet composition pellet porosity

Unit Sector(s)

Smelting

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.

Approved Page 9 of 9