



Australian Government

Department of Education, Employment and Workplace Relations

RIIPSM202A Prepare for pelletising activities

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the preparation for pelletising activities in the metalliferous mining industry. It includes preparing for pelletising, managing reclaimer piles and blend materials, and distributing raw materials for pelletising. 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 essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold 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.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Prepare for pelletising	1.1. Access, interpret and apply <i>compliance documentation</i> relevant to the work activity 1.2. Receive, interpret and clarify shift changeover details 1.3. Communicate with other personnel using approved communication methods 1.4. Select personal protective equipment appropriate for work activities 1.5. Identify, address and report potential risks and hazards 1.6. Complete systems and equipment pre-start checks 1.7. Identify, address and report <i>environmental issues</i>
2. Manage reclaimer piles and blend materials	2.1. Discharge materials from <i>transportation</i> minimising spillage and/or delays 2.2. Blend materials in specified sequence 2.3. Maintain sufficient amount of materials to meet pile building requirements 2.4. Ensure plant feed meets variable requirements to ensure quality outcomes
3. Distribute raw materials for pelletising	3.1. Suppress dust using appropriate method 3.2. Supply materials to required usage flow rates 3.3. Store materials ready for use in designated area 3.4. Accurately identify blended materials and transfer to designated area 3.5. Identify and remove oversize material before processing begins

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 prepare for pelletising activities:

- apply legislative, organisation and site requirements and procedures for preparing for pelletising activities
- 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
- use manual handling techniques

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 prepare for pelletising activities:

- 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
- trouble shooting
- 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

Evidence Guide

<p>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.</p>	
<p>Overview of assessment</p>	
<p>Critical aspects for assessment and evidence required to demonstrate competency in this unit</p>	<p>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:</p> <ul style="list-style-type: none"> • knowledge of the requirements, procedures and instructions for preparing for pelletising activities • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of preparation for pelletising activities • working with others to undertake and complete the pelletising activities preparation in a way that meets all of the required outcomes • consistent timely completion of pelletising activities preparation that safely, effectively and efficiently meets the required outcomes
<p>Context of and specific resources for assessment</p>	<ul style="list-style-type: none"> • 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.

	<ul style="list-style-type: none"> • Customisation of assessment and delivery environment to sensitively accommodate 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	<p>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:</p> <ul style="list-style-type: none"> • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • working with others to undertake and complete the pelletising activities preparation
Guidance information for assessment	<p>Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.</p>

Range Statement

<p>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.</p>	
<p>Relevant compliance documentation may include:</p>	<ul style="list-style-type: none"> • 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
<p>Legislation may include Acts and regulations dealing with:</p>	<ul style="list-style-type: none"> • mining safety and health • mine inspection • OHS • explosives • environment
<p>Environmental issues may include:</p>	<ul style="list-style-type: none"> • drainage • dust (dump) • emissions • flora and fauna • hazardous chemicals • noise • recycling • run-off/spills • waste management and disposal • water quality
<p>Transportation may include:</p>	<ul style="list-style-type: none"> • rail • mobile equipment • conveyor
<p>Plant may include:</p>	<ul style="list-style-type: none"> • heat exchanger • burners • lines • automatic greaser • conveyors • valves • rollers

	<ul style="list-style-type: none"> • shredder • pelletising drum • feed bins • grate
<p>Auxiliary equipment may be anything that is portable and mobile that is not part of the fixed infrastructure, and may include:</p>	<ul style="list-style-type: none"> • compressors • distribution control systems (DCS) • feeders • mobile equipment • hand and power tools • hoses
<p>Pre-start checks may include:</p>	<ul style="list-style-type: none"> • availability of equipment (e.g. conveyor) • trouble shooting • levels • walk through plant
<p>Start-up procedures may include the inspection of:</p>	<ul style="list-style-type: none"> • agitators • cameras and monitors • interlocks • distribution control system • launders • hydraulic system • pumping system • screen inspections • scuttling pumps • pipes and flanges • drive belts • valves • visual and audio warning devices and lights • suppression systems • lubrication systems

Unit Sector(s)

Smelting

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.