



Australian Government

Department of Education, Employment and Workplace Relations

RIIPRO204A Bulk package and store product

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the bulk packaging and storage of the product in metalliferous mining industry. It includes the planning and preparing for operations, starting the equipment sequence, packaging and storing product, shutting down equipment and conducting housekeeping duties.

Application of the Unit

This unit applies to general and bulk packaging operations.

This unit is appropriate for those working in a operational roles, 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. Plan and prepare for packaging	1.1. Access, interpret and apply compliance documentation relevant to the bulk packaging and storage of the product 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. Select appropriate type of auxiliary equipment for work activities 1.6. Perform equipment pre-start checks to ensure equipment is ready for operation 1.7. Identify, address and report potential risks and hazards 1.8. Identify, address and report environmental issues 1.9. Adhere to emergency procedures to ensure safety of personnel and plant 1.10. Use approved dust suppression and extraction methods 1.11. Ensure area is well ventilated before entry into work area 1.12. Prepare site for positioning of any mobile equipment used for packaging operations 1.13. Position and stabilise any mobile equipment used according to work plan 1.14. Check condition of packaging meeting work requirements
2. Start-up equipment in sequence	2.1. Carry out start-up procedures and complete start-up checks according to plant configurations and system requirements 2.2. Confirm plant is operational within specifications
3. Package product	3.1. Read and interpret data from equipment indicators to determine packaging efficiency 3.2. Continuously inspect plant and identify operational defects and potential problems

	3.3. Adjust equipment to optimise performance 3.4. Control feed to packaging unit 3.5. Take samples of product 3.6. Seal and accurately label package to ensure product is secured during transit 3.7. Prevent unauthorised entry to personnel and maintain security of packaging area 3.8. Complete all required documentation clearly, concisely and on time 3.9. Pass on end of shift information to oncoming shift
4. Store product	4.1. Store product in an approved location and secure environment 4.2. Position and brace packaged product according to transport requirements
5. Conduct housekeeping activities	5.1. Clean equipment to maintain condition of equipment and ensure safe and efficient operations 5.2. Clean and store auxiliary service equipment 5.3. Manage and report hazards to maintain a safe working environment
6. Shutdown in sequence and/or isolate equipment	6.1. Perform post shutdown or isolation checks 6.2. Shutdown or isolate equipment based on process and safety requirements

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 in this unit, particularly for the application in the various circumstances in which this unit may be applied. This includes the ability to carry out the following as required to bulk package and store product:

- apply legislative, organisation and site requirements and procedures
- apply hazard identification procedures
- apply operations monitoring requirements and procedures
- use hand and power tools
- apply procedures for working at heights

Required knowledge

Specific knowledge is required to achieve the Performance Criteria of this unit, particularly its application in a variety of circumstances in which the unit may be used. This includes knowledge of the following, as required to bulk package and store product:

- breakdown procedures
- bulk packaging methods
- contaminant identification
- emergency procedures
- environmental procedures
- equipment processes, technical capability and limitations
- equipment safety requirements
- hauling procedures (mobile)
- hazardous good handling techniques
- hazardous goods procedures and consequences of spills
- isolation procedures
- lifting techniques (manual, cranes and loads)
- loading procedures
- metallurgical and technical data (basic)
- night and day working procedures
- OHS procedures
- operational procedures and checks
- packaging requirements
- road rules (mobile)
- security procedures
- site procedures
- site safety requirements

- storage requirements and procedures
- towing procedures (mobile)
- types of ores (basic)
- wet and dry working procedures

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 the bulk packaging and storage of product • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of the bulk packaging and storage of product • working with others to undertake and complete the bulk packaging and storage of product that meets all of the required outcomes • consistent timely completion of the bulk packaging and storage of product that safely, effectively and efficiently meets the required outcomes
Context of and specific resources for assessment	• 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. • 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 cultural diversity. • Aboriginal people and other people from a non

	English speaking background may have second language issues. • Assessment of this competency requires typical resources normally used in the work environment. Selection and use of resources for particular worksites may differ due to site circumstances. • 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 • consistently achieving the required outcomes • first hand testimonial evidence of the candidate's: • working with others to undertake and complete the bulk packaging and storage of product
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.

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, organisation and site requirements and procedures • manufacturer's guidelines and specifications • Australian standards • code of practice • Employment and workplace relations legislation • Equal Employment Opportunity and Disability Discrimination legislation
Auxiliary equipment may be anything that is portable and mobile that is not part of the fixed infrastructure, and may include:	• hand and power tools • hoses (water and air) • mobile equipment
Pre-start checks may include:	• availability of equipment • detection of conditions that are unusual • fluid levels • job requirements • personnel availability • walk through plant
Environmental issues may include:	• drainage • dust • emissions • flora and fauna • hazardous chemicals • noise • recycling • run-off • spills • waste management and disposal • water quality
Start-up procedures may include:	• checks distribution control system (DCS) • chutes • display instruments and gauges

	• equipment stop engine lights • isolations • lights • material transport system for condition/tracking • pumping system • remote systems • visual and audio warning devices and lights • water spray systems
Product may include:	• concentrate (e.g. iron ore, arsenic) • refined product (e.g. gold bars)
Label package may include:	• number • safety warnings
Approved location may include:	• cell • concentrate pad • covered with tarp • safe • shipping container • silo/shed • strong box • warehouse
Clean may include:	• degreasing • forced air • high pressure • hosing with water • suction
Auxiliary service equipment may be anything that is portable and mobile that is not part of the fixed infrastructure, and may include:	• hand and power tools • hoses (water and air) • mobile equipment

Unit Sector(s)

Processing (General)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.