



Australian Government

Department of Education, Employment and Workplace Relations

RIIMCO202A Conduct mobile slew conveyor operations

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers the conduct of mobile slew conveyor operations in the coal industry. It includes planning and preparing for operations, operating the mobile slew conveyor, carrying out operator maintenance, and carrying out inspection, testing and reporting. 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 assistant role at worksites within:

- Coal 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 operations	1.1. Access, interpret and apply compliance documentation relevant to the work activity 1.2. Conduct pre-start checks in accordance with safety requirements 1.3. Inspect and plan route to be travelled, identify new hazardous conditions and implement control measures 1.4. Prepare for work, including avoidance of obstacles and site hazards 1.5. Position mobile slew conveyor accurately, safely and stabilise prior to commencement of operations 1.6. Prepare mobile slew conveyor for operation in accordance with machine limitations and digging conditions 1.7. Observe safety rules and regulations, including mine manager's rules, legislation and site-specific instructions
2. Operate mobile slew conveyor	2.1. Identify hazards and where possible implement control measures 2.2. Carry out start-up, park and shutdown procedures 2.3. Plan work and confirm work area as clear and safe prior to commencing operations 2.4. Carry out travel and steering in unison with excavator and hopper within operating and safety limits 2.5. Operate relevant mobile slew conveyor controls and functions from stationary mode , including - boom up, boom down, hoist up, hoist down, travel slew, to effectively lift and position loads 2.6. Relocate mobile slew conveyor to new location in mine 2.7. Monitor and act on fault indicator/enunciator panel 2.8. Carry out emergency procedures 2.9. Complete loading and discharge in accordance with the agreed plan and outcomes and within the optimum operating capacities of the allocated equipment

	2.10. Operate controls to transfer loads
3. Carry out operator maintenance	3.1. Travel <i>mobile slew conveyor</i> to maintenance site and/or <i>prepared for maintenance</i> 3.2. Carry out routine operator servicing, lubrication and housekeeping tasks 3.3. Carry out minor maintenance 3.4. Clear worksite of tools, debris and defective components and restore to site and <i>safety requirements</i> 3.5. Carry out recording and reporting
4. Carry out inspection, testing and reporting	4.1. <i>Inspect and test structures and components</i> for fault conditions, wear and need of repair or replacement 4.2. <i>Inspect and test safety devices</i> 4.3. Inspect and test fire service systems 4.4. Carry out records and reporting

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 conduct mobile slew conveyor operations:

- apply legislative, organisation and site requirements and procedures for the conduct of mobile slew conveyor operations
- apply permit and access procedures
- apply operational safety requirements
- access, interpret and apply technical information
- maintain equipment records
- apply hand-eye coordination
- use relevant hand tools
- apply diagnostic techniques , including assessing ground conditions
- comply with environmental requirements
- recognise site hand signals

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 conduct mobile slew conveyor operations:

- legislative and regulatory requirements relating to this competency
- site and equipment safety requirements and procedures
- scope and limitations of operations related to this competency
- site conveyor systems and bucketwheel configurations
- relevant mobile slew equipment characteristics, technical capabilities and limitations
- relevant operational and maintenance procedures
- mine site geological and survey data and assessment of ground conditions
- fire suppression, fire alert and disaster plan procedures
- hazard identification and risk assessment response procedures
- site environmental requirements and constraints related to conveyor/bucketwheel system

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 conducting mobile slew conveyor operations • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of mobile slew conveyor operations • working with others to undertake and complete the mobile slew conveyor operations in a way that meets all of the required outcomes • consistent timely completion of mobile slew conveyor operations 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. • 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 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 conduct of mobile slew conveyor operations
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, 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
Briefings or handover details may include:	• machine defects/faults • nature and scope of task • details of load chart/factors • adequacy of site lighting • potential hazards • status of system/permits
Plan the job includes:	• allocation of duties • plant inspections • minor maintenance
Pre-start checks include:	• rotation test • operational readiness test
Safety requirements may include:	• following access and permit procedures • boarding and disembarking procedures • working behind protective barriers • procedures for clearing blocked chutes and excessive spills • procedures covering moving parts • hot machinery
Site hazards may include:	• power lines • overhead service lines • lighting • obstructions • structures • other equipment/vehicles • dangerous material • formation/earthworks/batters

	• underground services • water
Mobile slew conveyor may operate:	• to manned or unmanned hopper • from bucketwheel or bucket chain excavators • optimum digging rates • belt sizes and loading capacities may vary • between conveyors
Operations may be:	• conducted in all weather conditions, including extreme conditions by day or night and may include coal or overburden
Safety rules and regulations may be contained in:	• legislation and regulations • relevant Australian standards • management plans • manager's rules • OHS policy • code of practice • manufacturer's manuals and instructions • safe working or job procedures • training resources
Prepared for maintenance may include:	• positioning and set up • electrics isolated • permit issued
Inspect and test structures and components may include checking:	• belts • sensors and indicators • idlers and pulleys • gearboxes • motors • couplings • hydraulics • frames
Inspect and test safety devices may include:	• providing the equipment function and correct lamp activated • lamp indicators tested

Unit Sector(s)

Coal Mining (Open Cut)

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.