



Australian Government

Department of Education, Employment and Workplace Relations

RIISAM305A Repair and splice conveyor belting

Release: 1

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Modification History

Not applicable.

Unit Descriptor

This unit covers repairing and splicing conveyor belting in the coal and metalliferous mining and extractive industries. It includes: planning and preparing for work; carrying out splicing operations; returning conveyors to service; and completing the work sequence.

Application of the Unit

This unit is appropriate for those working in operational or maintenance roles, at worksites within:

- Coal mining
- Extractive industries
- 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 work	1.1. Access, interpret and apply compliance documentation relevant to the repairing and splicing conveyor belting 1.2. Obtain, interpret and clarify/confirm work requirements before proceeding 1.3. Access, interpret and apply geological and survey data required to complete the allocated work 1.4. Identify and obtain resources, including appropriate technical manuals and information, equipment, materials and tools required for the work 1.5. Locate, position, make safe and clean the belting in preparation for work 1.6. Coordinate activities with others at the site prior to commencement of, and during, the work activity
2. Carry out splicing operations	2.1. Select tools and equipment appropriate to the tasks and correctly use and apply throughout the task 2.2. Complete splicing operation or belt repairs without damage to adjacent structures or equipment
3. Return conveyor to service	3.1. Carry out inspection of conveyor and auxiliary equipment to ensure compliance with relevant technical specifications 3.2. Test and test run conveyor belting to ensure compliance with manufacturer/site procedures 3.3. Return conveyor to service
4. Complete the work sequence	4.1. Clean, service and store equipment and tools 4.2. Restore worksite 4.3. Complete records and documents

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 repair and splice conveyor belting:

- apply legislative, organisation and site requirements and procedures
- access, interpret and apply technical information
- apply site safety procedures
- use hand and power tools
- use marking out techniques
- sharpen knives
- operate pulling and lifting equipment
- dispose of environmentally sensitive oils, fluids and materials

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 repair and splice conveyor belting:

- legislative and site operation safety requirements and procedures
- site operational rules and procedures
- operations, characteristics, capabilities and limitations of vulcanising presses
- specialised cutting tools and conveyor belt types
- slinging and lifting procedures and related safety requirements
- hazardous chemicals
- site equipment and maintenance documentation and procedures
- site inventory (parts) systems
- marking out procedures
- site environmental requirements and constraints related to conveyor belting

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 repairing and splicing conveyor belting
- implementation of requirements, procedures and techniques for the safe, effective and efficient repairing and splicing of conveyor belting
- working with others to repair and splice conveyor belting that meets all of the required outcomes
- consistent timely repair and splicing of conveyor belting 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 repair and splice conveyor belting
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
Work requirements may be in the form of:	• shift briefings • handover details • work orders • safe working procedures (or equivalent) • type of belt to be repaired/spliced • method of repair/splice • location of work and hazards • work environment
Equipment may include:	• cutting • sanding • clamping • pulling • lifting • vulcanising equipment • lifting equipment, which may include: • mobile cranes • gantry cranes • truck mounted hoist • forklifts • general rigging equipment
Tools may include:	• hand tools • air and power tools • pulling gear
Belts may include:	• steel cord • PVC

	• fabric • composite carcass
Splices may include:	• both cold and hot vulcanising • mechanical splices/clips/joints
Repairs may include:	• edge repairs • lateral and longitudinal splits • inlays

Unit Sector(s)

Service and Maintenance

Competency field

Refer to Unit Sector(s).

Co-requisite units

Not applicable.