



Australian Government

RIISAM304D Install, commission and maintain major conveyor equipment and systems

Release: 2

RIISAM304D Install, commission and maintain major conveyor equipment and systems

Modification History

Release	Comment
1	This unit replaces RIISAM304A Install, commission and maintain major conveyor equipment and systems
2	Required frequency and volume of evidence amended in Performance evidence. Substantial amendments made in Assessment Conditions field, including: references to Industry Sectors, assessor and subject matter expert experience requirements, how assessment should be conducted and what it should confirm.

Application

This unit develops a participant's skills and knowledge required to install, commission and maintain major conveyor equipment and systems in Coal Mining.

This unit is appropriate for those working in operational roles.

No licensing, legislation or certification requirements apply to this unit at the time of publication.

Unit Sector

Coal mining

Elements and Performance Criteria

1. Plan and prepare for installation, commissioning and maintenance of major conveyor equipment	1.1 Access, interpret and apply service and maintenance documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues, and implement control measures 1.4 Select and wear personal protective equipment appropriate for the work activity 1.5 Obtain and interpret emergency procedures and be ready for fire/accident/emergency 1.6 Access, interpret and apply geological and survey data
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	1.7 Obtain, transport and prepare materials and resources
2. Install conveyor equipment	2.1 Communicate and coordinate activities with others prior to commencement of, and during, the work activity 2.2 Apply and monitor isolation and tag out procedures throughout the work 2.3 Install conveyor equipment and systems 2.4 Perform work within the operating capacities of the allocated equipment
3. Commission conveyor systems	3.1 Carry out inspection of conveyors and belts and auxiliary componentry 3.2 Carry out start-up and shut-down procedures 3.3 Test and test run equipment
4. Carry out operator maintenance	4.1 Carry out conveyor equipment inspections and fault finding 4.2 Carry out routine operational maintenance, servicing, lubrication and housekeeping tasks 4.3 Carry out minor maintenance 4.4 Provide operator support during preparation for, and conduct of, major maintenance tasks 4.5 Process records

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIISAM304A Install, commission and maintain major conveyor equipment and systems

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=88a61002-9a21-4386-aaf8-69c76e675272>

Assessment Requirements for RIISAM304D Install, commission and maintain major conveyor equipment and systems

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Performance Evidence

Evidence is required to be collected that demonstrates a candidate's competency in this unit. Evidence must be relevant to the roles within this sector's work operations and satisfy all of the requirements of the performance criteria of this unit and include evidence that the candidate:

- locates and applies applicable legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient installation, commissioning and maintenance of major conveyor equipment and systems, including:
 - accessing, interpreting and applying technical and safety information
 - interpreting and applying survey information and plans
 - operating plant and machinery
 - maintaining equipment records
 - applying diagnostic/fault finding techniques
 - using hand tools
 - addressing environmental issues
- works effectively with others to install, commission and maintain major conveyor equipment and systems that meets all of the required outcomes, including:
 - complying with written and verbal reporting requirements and procedures
 - communicating clearly and concisely with others to receive and clarify work instructions
 - communicating clearly and concisely with others to coordinate work activities
- demonstrates completion of the installation, commissioning and maintenance of major conveyor equipment and systems that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:

- installing conveyor equipment
- completing operator maintenance
- inspecting conveyors, belts and auxiliary components
- completing start-up and shutdown activities

Knowledge Evidence

The candidate must demonstrate knowledge in installing, commissioning and maintaining major conveyor equipment and systems through:

- accessing, interpreting and applying organization and site requirements and procedures for:
 - operational safety
 - mine operations
 - mine communications
 - conveyor equipment installation
 - site mechanical/technical maintenance systems
 - equipment maintenance/lubrication
 - site environmental issues and constraints
- identifying conveyor equipment characteristics, uses and limitations
- accessing and interpreting relevant geological and survey information

Assessment Conditions

- An assessor of this unit must satisfy the requirements of the NVR/AQTF or their successors; and Industry regulations for certification and licensing; and,
- this unit must be assessed in the context of this sector's work environment; and,
- this unit must be assessed in compliance with relevant legislation/regulation and using policies, procedures, processes and operational manuals directly related to the industry sector for which it is being assessed; and,
- assessment may be conducted in conjunction with the assessment of other Units of Competency; and,
- assessment must confirm consistent performance can be applied in a range of relevant workplace circumstances; and,
- assessors must demonstrate the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and through the minimum years of current* work experience specified below in an Industry sector relevant to the outcomes of the unit; or,
- where the assessor does not meet experience requirements a co-assessment or partnership arrangement must exist between the qualified assessor and an Industry subject matter expert. The Industry subject matter expert should hold the unit being assessed (or an equivalent unit) and/or demonstrate equivalence of skills and knowledge at the unit level. An Industry technical expert must also demonstrate skills and knowledge from the minimum years of current work experience specified below in the Industry sector, including time spent in roles related to the unit being assessed; and,

- assessor and Industry subject matter expert requirements differ depending on the Australian Qualifications Framework Level (AQF) of the qualification being assessed and/or Industry Sector as follows:

Industry sector	AQF** Level	Required assessor or Industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Construction	1	1 Year
	2	2 Years
Drilling, Coal Mining and Extractive (Quarrying)	3-6	3 Years
Metalliferous Mining and Civil Construction	3-6	5 Years
Other sectors	Where this Unit is being assessed outside of the Resources and Infrastructure Sectors assessor and/or Industry subject matter expert experience should be in-line with industry standards for the sector in which it is being assessed and where no Industry standard is specified should comply with any relevant regulation.	

*Assessors can demonstrate current work experience through employment within Industry in a role relevant to the outcomes of the Unit; or, for external assessors this can be demonstrated through exposure to Industry by conducting frequent site assessments across various locations.

**Where a unit is being delivered outside of a Qualification the first numeric character in the Unit code should be considered to indicate the AQF level

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