



Australian Government

RIIMPO330D Conduct bucket-wheel operations

Release: 4

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Modification History

Release	Comment
1	This unit replaces RIIMPO330A Conduct bucket-wheel operations. Performance Criteria amended to make information more explicit; manoeuvring, driving and parking up added; Housekeeping element changed and differentiated from Operator Maintenance.
2	Editorial corrections; Modification History added.
3	Removed repetition from Performance Criteria; amend reference to Licensing requirements in Unit Application; editorial corrections.
4	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 describes a participant's skills and knowledge required to conduct bucket-wheel operations in Coal mining.

This unit is appropriate for those working in operational roles.

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.

Unit Sector

Coal mining

Elements and Performance Criteria

1. Plan and prepare for bucket-wheel operations	1.1 Access, interpret and apply bucket-wheel operations documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address risks, hazards and environmental issues and implement control measures 1.4 Select and wear personal protective equipment appropriate for
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	work activities 1.5 Access, interpret and apply geological and survey data required to complete the allocated work 1.6 Select, and check for faults, equipment and/or attachments for work activities 1.7 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Operate bucket-wheel excavator	2.1 Coordinate activities with others at the site prior to commencement of, and during, the work activity 2.2 Carry out pre-start, start-up, park-up, shutdown and secure equipment procedures 2.3 Drive and operate bucket-wheel, using controls to remove and place burden 2.4 Steer, travel and maintain alignment, and optimise digging performance 2.5 Act on monitoring systems and alarms or report problems 2.6 Continually monitor hazards and risks, and ensure safety of self, other personnel, plant and equipment 2.7 Complete work plan within the operating capacity of the equipment
3. Relocate bucket-wheel excavator	3.1 Receive and confirm route and location plan and by site inspection 3.2 Complete ground preparation 3.3 Carry out cable location and handling 3.4 Resolve coordination issues, including support equipment and personnel 3.5 Conduct steering and travel to relocate bucket wheel excavator
4. Carry out operator maintenance	4.1 Prepare machine for maintenance 4.2 Conduct inspection and fault finding 4.3 Carry out scheduled maintenance tasks 4.4 Return the machine to service 4.5 Process written maintenance records
5. Conduct housekeeping activities	5.1 Clear work area and dispose of or recycle materials 5.2 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

No equivalent Unit

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 RIIMPO330D Conduct bucket-wheel operations

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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 relevant documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of bucket-wheel operations including:
 - conducting prestart checks prior to commencing operations and shutdown procedures on completion of operations
 - carrying out vehicle refuelling requirements and procedures
 - driving and operating the equipment to site conditions
 - applying safe work practices and identifying and reporting all potential hazards, risks and environmental issues
 - applying problem solving and troubleshooting techniques
 - selecting and using the required tools and equipment
 - safely parking and securing of equipment
- works effectively with others to undertake and complete bucket-wheel operations that meet all of the required outcomes including:

- using a range of communications techniques and equipment to convey information to others
- maintaining written and verbal reporting requirements and procedures
- communicating clearly and concisely with others to receive and clarify work instructions
- demonstrates completion of conducting bucket wheel operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - completion of operations to work plan including:
 - the positioning and digging of burden as part of a terrace dig
 - rehandling and responding to changes in depth, grade and crossfall
 - relocating bucket-wheel excavator
 - identify and respond to alarms and signals
 - drive and operate bucket-wheel
 - steer, travel and maintain alignment of bucket-wheel

Knowledge Evidence

The candidate must demonstrate knowledge of the following when conducting bucket-wheel operations:

- identifying, interpreting ground conditions
- communicating and performing isolation procedures
- identifying equipment characteristics, technical capabilities and limitations
- being prepared for fire/accident/emergency
- identifying signs of operator fatigue and how it should be managed
- complying with project quality requirements
- applying operational, maintenance and basic diagnostics
- completing housekeeping activities
- applying site environmental requirements and constraints
- reading and interpreting site geological and survey data

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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