

RIIMPO206A	Conduct bulk water truck operations
Unit descriptor	This unit covers conducting bulk water truck operations in mining and extractive industries. It includes planning and preparing for operations; operating the truck; loading, hauling and distributing water; and carrying out post-operational procedures.
Employability skills	This unit contains employability skills.
Application of the unit	Bulk water trucks are purpose built vehicles for the transport and distribution of water on worksites and may include: diesel-mechanical, diesel-electric, rigid or articulated vehicles. This unit is appropriate for those working in mobile plant operator roles, at worksites within: <ul style="list-style-type: none"> • Coal mining • Extractive industries • Metalliferous mining
Competency field	Mobile Plant Operations

ELEMENT	PERFORMANCE CRITERIA
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.
1. Plan and prepare for operations	1.1. Access, interpret and apply <i>compliance documentation</i> relevant to conducting bulk water truck operations 1.2. Obtain, interpret and clarify <i>work requirements and procedures</i> for the satisfactory completion of the allocated job 1.3. Access, interpret and apply <i>geological</i> and <i>survey data</i> required to complete the allocated job 1.4. Resolve <i>coordination</i> requirements with others at the site prior to commencing and during work activities
2. Operate truck	2.1. Carry out <i>pre-start, start-up, park-up and shutdown procedures</i> 2.2. Select and modify the <i>operating technique</i> to appropriately meet <i>changing work conditions</i> 2.3. Conduct, control and monitor operations within the equipment limitations 2.4. Act on or report <i>monitoring systems and alarms</i> 2.5. Recognise and respond to <i>hazardous and emergency situations</i>
3. Load, haul and distribute water	3.1. Load water at the water point 3.2. Carry out water haulage operations efficiently in accordance with requirements and procedures 3.3. Distribute water efficiently in accordance with requirements and procedures 3.4. Complete work in accordance with agreed work requirements and within the operating capacity of the allocated equipment
4. Carry out post-operational procedures	4.1. Inspect, fault find and report faults 4.2. Carry out routine <i>operator servicing, maintenance and housekeeping tasks</i> 4.3. Maintain and process <i>records and reports</i>

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 conduct bulk water truck operations:

- apply legislative, organisation and site requirements and procedures
- apply operational safety requirements
- access, interpret and apply technical information
- apply equipment records maintenance procedures
- apply diagnostic techniques
- use relevant hand tools
- apply procedures for dispose of environmentally sensitive fluids and materials
- apply chemical and fuel safety measures
- work wearing personal protective equipment

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 conduct bulk water truck operations:
site risk control procedures:

- site and equipment health and safety requirements
- site environmental requirements and constraints
- site quality requirements
- site communication procedures
- site geological and survey data
- site operational procedures
- truck operational procedures
- truck maintenance systems and procedures
- haul truck characteristics, technical capability and limitations
- hazard identification and response procedures
- site record keeping requirements
- site personal protective equipment requirements

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
- codes of practice
- Employment and workplace relations legislation
- Equal Employment Opportunity and Disability Discrimination legislation

Work requirements and procedures

may come from briefings, handovers, and work orders and may include:

- product identification
- nature and scope of tasks
- achievement targets
- operational conditions
- site layout
- out of bounds areas

RANGE STATEMENT	
	<ul style="list-style-type: none"> • worksite inspection requirements • lighting conditions • plant or equipment defects • hazards and potential hazards • coordination requirements or issues
Geological data may include relevant site-specific information in relation to:	<ul style="list-style-type: none"> • rock type and characteristics • faults and joints • water tables or other water sources
Survey data may include relevant site-specific information in relation to:	<ul style="list-style-type: none"> • floor heights • bench widths • grades
Coordination with others may include with:	<ul style="list-style-type: none"> • supervisors • plant operators (fixed & mobile) • contractors • traffic coordinators & weighbridge operators • other site personnel • loading units • other earthmoving equipment • materials handling equipment • light vehicles • lighting plant • use of 2-way radios
Pre-start and start-up procedures are to include:	<ul style="list-style-type: none"> • external check of the machine • checking and topping up fluid levels (including fuel) • lubrication • inspection of attachments to ensure security and defects • instrument and control lever checks • reporting of defects and damage
Park-up and shutdown procedures are to ensure that:	<ul style="list-style-type: none"> • vehicle/equipment is secured as required by site procedures • attachments are rendered safe • access ways are clear
Operating techniques may include:	<ul style="list-style-type: none"> • equipment positioning • load discharge • observing site speed limits • working safely around: <ul style="list-style-type: none"> ◦ overhead powerlines ◦ other machines and personnel ◦ live stockpiles
Changing work conditions may include variations in:	<ul style="list-style-type: none"> • grades • height of faces • weather conditions • day and night
Monitoring systems and alarms may include:	
Hazardous and emergency situations may include:	<ul style="list-style-type: none"> • powerlines • conveyors • overhead service • lightning strikes (potential tyre explosion) • tyre fires (isolation procedures)

RANGE STATEMENT	
Operator service, maintenance and housekeeping tasks are those established and authorised for the site and may include:	<ul style="list-style-type: none"> • cleaning, • authorised servicing and the monitoring • recording and reporting of faults • conduct of authorised minor replacements • provision of assistance to maintenance personnel during maintenance and repair activities
Records and reports may include:	<ul style="list-style-type: none"> • fuel usage • computer readings • end of shift documentation • supplies logs • work logs stockpile information • quality information • despatch details

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	<p>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:</p> <ul style="list-style-type: none"> • knowledge of the requirements, procedures and instructions for conducting bulk water truck operations • implementation of requirements, procedures and techniques for the safe, effective and efficient completion of bulk water truck operations • working with others to undertake and complete bulk water truck operations that meets all of the required outcomes • consistent timely completion of bulk water truck operations that safely, effectively and efficiently meets the required outcomes
Context of and specific resources for assessment	<ul style="list-style-type: none"> • 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

EVIDENCE GUIDE	
	<p>practical application using more than one of the following assessment methods:</p> <ul style="list-style-type: none"> • written and/or oral assessment of the candidate's required knowledge • observed, documented and/or first hand testimonial evidence of the candidate's: <ul style="list-style-type: none"> ◦ 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: <ul style="list-style-type: none"> ◦ working with others to undertake and complete bulk water truck operations
Guidance information for assessment	Consult the SkillsDMC User Guide for further information on assessment including access and equity issues.