



Australian Government

RIIMPO325E Conduct civil construction scraper operations

Release: 2

RIIMPO325E Conduct civil construction scraper operations

Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 3.0.
Release 2	Editorial and other amendments made to clarify requirements in Application and Performance Criteria 4.3.

Application

This unit describes the skills and knowledge required to operate a scraper to load, transport and discharge material, and to couple and relocate a scraper.

This unit applies to those working in site based roles.

Licensing, legislative, regulatory and certification requirements that apply to this unit can vary between states, territories, and industry sectors, and must be sourced from state jurisdictions prior to applying this unit.

This unit alone does not provide sufficient skill to independently load and unload equipment. To perform this activity safely, personnel must either complete or be assisting someone who has completed RIIHAN308F Load and unload plant or equivalent.

Unit Sector

Civil infrastructure

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare for scraper operations	1.1 Access, interpret and apply scraper operations documentation 1.2 Obtain, interpret, clarify and confirm work instructions 1.3 Identify hazards and environmental issues, assess the risks and implement control measures in line with workplace policies 1.4 Select and wear personal protective equipment required for work activities

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Identify, obtain and implement traffic management signage requirements according to standard operating procedures and safe work practices 1.6 Select equipment and confirm suitability for work activities 1.7 Obtain and interpret emergency procedures for a scraper, and be prepared for fires, accidents emergencies 1.8 Coordinate communicate planned activities with others at the site prior to commencement of the work activity
2. Operate scraper in line with established requirements to complete work activity	2.1 Carry out prestart and start-up checks in line with workplace procedures 2.2 Identify faults or defects and rectify or report within scope of own responsibility and according to workplace procedures 2.3 Drive and operate scraper using techniques suited to equipment capabilities, site and work conditions, and according to workplace procedures 2.4 Load, transport and discharge material , ensuring minimum loss of load 2.5 Conduct, control and monitor operations within the equipment limitations 2.6 Monitor hazards and risks during operations , and ensure safety of self, other personnel, plant and equipment 2.7 Monitor and manage equipment performance using indicators and alarms 2.8 Park up, shut down, secure and carry out post operational inspection of equipment in line with workplace procedures
3. Couple machines to perform work activity	3.1 Establish and maintain coordination with other scraper operator during coupling 3.2 Assist with safe disengagement of puller/pusher when bowls are filled to capacity 3.3 Use attachment in accordance with recommendations and design limits 3.4 Clean and store removed attachments in designated location according to workplace procedures
4. Relocate the scraper	4.1 Prepare scraper for relocation

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	4.2 Move scraper safely between worksites, observing relevant codes and traffic management requirements 4.3 Assist loading and unloading machine from float/trailer as required by workplace procedures
5. Conduct housekeeping activities	5.1 Clear work area and dispose of or recycle materials according to workplace procedures 5.2 Manage and/or report hazards to maintain a safe working environment 5.3 Complete and file or distribute documentation in a manner that complies with workplace practices

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance.

Skill	Description
Reading	Identifies and interprets information from workplace procedures, documentation, legislation and regulations
Numeracy	Uses equipment operating capacity schedule to confirm safe weight load limits

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
RIIMPO325E Conduct civil construction scraper operations (Release 1)	RIIMPO325D Conduct civil construction scraper operations (Release 3)	Minor updates to reflect changes to operator maintenance and relocation activities	Equivalent unit

Links

Companion Volume Implementation Guides are available from VETNet -

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

Assessment Requirements for RIIMPO325E Conduct civil construction scraper operations

Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 3.0.
Release 2	Editorial and other amendments made to clarify requirements in Application and Performance Criteria 4.3.

Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements and performance criteria of this unit.

The candidate must demonstrate completion of scraper operations that safely, effectively and efficiently follows workplace procedures to carry out work activity on at least two occasions, and include:

- conducting prestart checks prior to commencing operations and shutdown procedures on completion of operations
- driving and operating the equipment, and adjusting techniques to suit site conditions
- loading, transport and discharging of materials
- completion of operations to specification using a variety of material types including:
 - stripping of materials to specified depth
 - the cutting and filling of materials to line and level
 - stockpiling
 - spreading
- coupling, operating in tandem and disengagement of equipment in coordination with other operator
- assisting with loading and unloading scraper from float/trailer
- parking and securing of equipment

In the course of the above work the candidate must also:

- locate and apply relevant documentation, policies and procedures
- select and wear personal protective equipment required for work activities
- carry out vehicle refuelling requirements and procedures where applicable
- apply safe work practices and identifying and reporting all potential hazards, risks and environmental issues
- apply problem solving and troubleshooting techniques

- apply levelling techniques
- select and use the required tools and equipment
- applying methods of changing machine attachments
- inspect and prepare work area
- manage changes in the loads centre of gravity during transportation
- use a range of communications techniques and equipment essential to the safe completion of work activity, including, hand, audible and other signals
- meet written and verbal reporting requirements and procedures associated with scraper operations
- organise work activities to meet all task requirements

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements and performance criteria of this unit. This includes:

Key policies and procedures, legislation and established requirements for scraper operation, including those relating to:

- fire, accidents and emergencies
- work health and safety, including signs of operator fatigue and how it should be managed
- site isolation
- project quality requirements
- maintenance and basic diagnostics
- housekeeping activities
- recycling materials
- traffic control responsibilities and authorities
- chain of responsibility for loading and unloading of equipment

Key factors affecting work activities described in performance evidence above, including:

- technical capabilities and limitations
- methods for calculating safe working loads
- equipment specifications
- ground conditions
- materials characteristics, including density and viscosity

Key features associated with civil construction works, including

- terminology
- activity sequences of road construction, earthworks and drainage
- basic earthworks calculations
- principles of materials technology and materials compaction
- drawings and sketches
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Assessment Conditions

Mandatory conditions for assessment of this unit are stipulated below. The assessment must:

- include access to:
 - a scraper
 - personal protective equipment
- be conducted in a safe environment; and,
- be assessed in context of this sector's work environment; and,
- 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,
- confirm consistent performance can be applied in a range of relevant workplace circumstances

Where personal safety or environmental damage are limiting factors, assessment may occur in a simulated work environment* provided it is realistic and sufficiently rigorous to cover all aspects of this sector's workplace performance, including environment, task skills, task management skills, contingency management skills and job role environment skills.

Assessor requirements

Assessors must be able to clearly demonstrate current and relevant industry knowledge and experience to satisfy the mandatory competency standards as set out in the Standards for Registered Training Organisations (RTOs) 2015/AQTF mandatory requirements for assessors current at the time of assessment and any relevant licensing and certification requirements. This includes:

- vocational competencies at least to the level being delivered and assessed
- current industry skills directly relevant to the training and assessment being provided
- current knowledge and skills in vocational training and learning that informs their training and assessment
- formal relevant qualifications in training and assessment
- having knowledge of and/or experience using the latest techniques and processes
- possessing a high level of RII training product knowledge
- having an understanding and knowledge of legislations and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence as outlined in this Unit of Competency, and
- the minimum years of current** work experience after competency has been obtained as specified below in an industry sector relevant to the outcomes of the unit.

It is also acceptable for the appropriately qualified assessor to work with an industry expert to conduct assessment together and for the industry expert to be involved in the assessment judgement. The industry expert must hold the relevant vocational competencies and have current industry skills directly relevant to the training and assessment being provided and must work alongside a trainer and/or assessor to conduct the assessment. This means the industry subject matter expert should hold the unit being assessed (or an equivalent unit), and must also demonstrate skills and knowledge from the minimum years of current work experience after competency has been obtained as specified below, including time spent in roles related to the unit being assessed:

Industry sector	AQF indicator level***	Required assessor or industry subject matter expert experience
Drilling, Metalliferous Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	1	1 Year
	2	2 Years
Drilling, Coal Mining, Extractive (Quarrying), Metalliferous Mining and Civil Infrastructure	3-6	3 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.	

*Guidance on simulated environments has been stipulated in the RII implementation guide located on VETNet.

**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 a minimum number of site assessments as determined by the relevant industry sector, across various locations.

*** While a Unit of Competency does not have an AQF level, where a unit is being delivered outside of a qualification the first numeric character in the unit code should be considered as the AQF indicator level for assessment purposes.

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