



Australian Government

RIICRM302E Conduct long line road marking operations

Release: 1

RIICRM302E Conduct long line road marking operations

Modification History

Release	Comments
Release 1	This version first released with RII Resources and Infrastructure Industry Training Package Version 6.0.

Application

This unit describes the skills and knowledge required to conduct long line road marking operations in civil construction, including conducting pre-operational checks, operating long line road marking plant and carrying out operator maintenance.

It applies to those working in operational roles. They generally work under minimal supervision to undertake a broad range of tasks in varied work contexts, using some discretion and judgement in selecting equipment, services or contingency measures.

Licensing, legislative and certification requirements that apply to this unit can vary between states, territories, and industry sectors. Users must check requirements with relevant body before applying the unit.

Unit Sector

Civil construction

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 to conduct long line road marking operations	1.1 Obtain, interpret, clarify and confirm work instructions 1.2 Access, interpret and apply documentation required to conduct long line road marking operations and confirm work activity is compliant 1.3 Identify and implement traffic management signage requirements 1.4 Select plant, tools and equipment to carry out tasks and check for faults 1.5 Identify and address potential risks, hazards and environmental issues, and implement control measures within scope of own role 1.6 Select and wear personal protective equipment required for work

ELEMENT	PERFORMANCE CRITERIA
	activities 1.7 Obtain and interpret emergency procedures and identify steps required to respond to emergencies
2. Conduct pre-operational checks	2.1 Check and inflate tyres according to job requirements 2.2 Carry out pre-start, start-up, park up, shutdown and secure equipment procedures according to manufacturer specifications and site requirements 2.3 Check road marking plant controls and functions, including brakes and manoeuvrability for serviceability, and report faults as required
3. Operate long line road marking plant	3.1 Drive and operate equipment according to manufacturer specifications and job requirements 3.2 Manage engine power 3.3 Position vehicle according to job requirements 3.4 Apply road marking material according to job requirements
4. Carry out operator maintenance	4.1 Prepare machine for maintenance 4.2 Conduct inspection and fault-finding procedures 4.3 Carry out scheduled maintenance tasks according to manufacturer specifications 4.4 Process maintenance records according to site requirements
5. Conduct clean-up activities	5.1 Clear work area and dispose of or recycle materials according to site requirements 5.2 Return surplus fuel and lubricants to storage according to site requirements 5.3 Clean, check, maintain and store plant, tools and equipment according to manufacturer specifications and site requirements 5.4 Carry out housekeeping activities according to site requirements

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential to performance but not explicit in the performance criteria.

SKILL	DESCRIPTION
Numeracy	Calculates basic measurements relating to distances, material requirements, application rates and travel speeds
Self-management	Monitors and minimises own exposure to worksite risks and hazards during work activities
Writing	Completes basic records using sector-specific vocabulary,

SKILL	DESCRIPTION
	grammatical structures and conventions

Unit Mapping Information

Supersedes and is equivalent to RIICRM302D Conduct long line road marking operations.

Links

Companion Volume Implementation Guide is found on VETNet -

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

Assessment Requirements for RIICRM302E Conduct long line road marking operations

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Performance Evidence

The candidate must demonstrate the ability to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including evidence of the ability to:

- conduct long line, road marking operations using a long line road marking machine on at least two occasions, including:
 - marking new lines for at least five kilometres of each of the following:
 - centre lines, including:
 - separation line
 - barrier line one direction
 - barrier line both directions
 - edge lines
 - re-marking over existing lines for at least five kilometres of each of the following:
 - centre lines, including:
 - separation line
 - barrier line one direction
 - barrier line both directions
 - edge lines.

During the above, the candidate must:

- locate and apply required legislation, documentation, policies and procedures
- identify, report and record hazards, risks and environmental issues
- work with others to conduct long line road marking operations that meets all required outcomes, including:
 - communicating with others to receive and clarify work instructions
 - using communication techniques and systems to advise others of work activity and exclusion zones.

Knowledge Evidence

The candidate must be able to demonstrate knowledge to complete the tasks outlined in the elements, performance criteria and foundation skills of this unit, including knowledge of:

- legislation required to conduct long line road marking operations
- policies, procedures and documentation required to conduct long line road marking operations, including those relating to:
 - work health and safety
 - work instructions
 - emergency response
 - equipment operation
 - operational, maintenance and basic diagnostics
 - road marking identification
 - road marking application including techniques for applying material evenly and in alignment to required surface
 - project quality requirements
 - site isolation and traffic control responsibilities and authorities
 - manufacturer specifications for required plant and equipment
 - site requirements
 - communication techniques and equipment
 - Job Safety Analyses (JSAs)/Safe Work Method Statements (SWMS)
 - housekeeping activities, including:
 - cleaning work area
 - cleaning and maintaining condition of equipment
 - waste management
 - record processing
 - engine power management and ensuring efficient plant movements and minimum damage to engine and gears
 - Safety Data Sheets (SDS) and materials handling methods
- vehicle positioning requirements, including those relating to reducing interruptions to the flow of road marking materials
- equipment types, characteristics, technical capabilities and limitations for long line road marking operations
- civil construction terminology relevant to conducting long line road marking operations
- required road marking materials
- processes for the calculating material requirements, application rates and travel speed.

Assessment Conditions

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

- include access to:
 - personal protective equipment

- equipment required to conduct long line road marking operations
- be conducted in a safe environment; and,
- be assessed in the context of this sector's work environment; and,
- be assessed in compliance with relevant legislation/regulation and using policies, procedures and processes 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 regulatory standards as set out in the Standards for Registered Training Organisations 2015/Australian Quality Training Framework 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 the required level of RII training product knowledge
- having an understanding and knowledge of legislation and regulations relevant to the industry and to employment and workplaces
- demonstrating the performance evidence, and knowledge evidence 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 have current industry skills directly relevant to the training and assessment being provided. This means the industry subject matter expert must 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	1	1 year

Mining, Coal Mining, Extractive (Quarrying) and Civil Infrastructure	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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