



**Australian Government**

# **RIICRM303D Conduct thermo plastic road marking operations**

**Release: 2**

## RIICRM303D Conduct thermo plastic road marking operations

### Modification History

| Release | Comment                                                                                                                                                                                                                                                                                                            |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | This unit replaces RIICRM303A Conduct thermo plastic road marking operations                                                                                                                                                                                                                                       |
| 2       | Required frequency and volume of evidence amended in Performance evidence.<br>Substantial amendments made in Assessment Conditions field, including:<br>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 thermo plastic road marking operations in Civil Construction.

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

Civil construction

### Elements and Performance Criteria

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Plan and prepare to conduct thermo plastic road marking operations | <p>1.1 Access, interpret and apply thermo plastic road marking operations documentation and ensure the work activity is compliant</p> <p>1.2 Obtain, interpret, clarify and confirm work instructions before proceeding</p> <p>1.3 Identify and implement traffic management signage requirements</p> <p>1.4 Select and check for faults plant, tools and equipment to carry out tasks</p> <p>1.5 Identify, address and report hazards, risks and environmental issues</p> <p>1.6 Select and wear correct personal protective equipment appropriate for work activities</p> |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                 |                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                 | 1.7 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency                                                                                                                                                                                                                                                      |
| 2. Prepare surface and set out  | 2.1 Clear area of dirt, debris and other contaminants<br>2.2 Identify location for line marking and set out with control points<br>2.3 Spot straight lines and curves in preparation for marking<br>2.4 Remove pre-existing visible marks/lines where required<br>2.5 Prime marked location for lines in readiness for road marking application |
| 3. Prepare marking materials    | 3.1 Mix and prepare marking material<br>3.2 Heat material to manufacturer's specifications to allow easy and consistent application<br>3.3 Transfer marking material safely to applicator container                                                                                                                                             |
| 4. Apply road marking materials | 4.1 Use equipment with the correct movement and pressure<br>4.2 Apply road marking material to the surface providing an even coverage<br>4.3 Identify and correct defects in the thermo plastic material<br>4.4 Maintain equipment                                                                                                              |
| 5. Measure work                 | 5.1 Assess, record and report work outcomes<br>5.2 Calculate and quantify amount of line marking completed<br>5.3 Identify and report non-conforming work                                                                                                                                                                                       |
| 6. Clean up                     | 6.1 Clear work area and dispose of or recycle materials<br>6.2 Clean, check, maintain and store plant, tools and equipment<br>6.3 Carry out housekeeping activities                                                                                                                                                                             |

## 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

RIICRM303A Conduct thermo plastic road marking operations

## 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 RIICRM303D Conduct thermo plastic road marking operations

### Modification History

| Release | Comment                                                                                                                                                                                                                                                                                                         |
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| 1       | This unit replaces RIICRM303A Conduct thermo plastic road marking operations                                                                                                                                                                                                                                    |
| 2       | Required frequency and volume of evidence amended in Performance evidence.<br>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. |

### 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 documentation, policies and procedures
- works effectively with others to undertake and complete thermo plastic road marking operations that meet all of the required outcomes including:
  - communicating clearly and concisely with others to receive and clarify work instructions
  - using a range of communication techniques and systems such as signage to advise others of work activity and exclusion zone
- demonstrates completion of conducting thermo plastic road marking operations that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
  - selecting and inspecting for faults in plant, tools and equipment
  - identifying, reporting and recording hazards, risks and environmental issues
  - removing dirt, debris and contaminants from the area
  - preparing the marking materials by mixing and heating materials appropriately
  - completing new lines for a minimum of five (5) kilometres of each of the following to the specified tolerance:
    - centre line (to include separation line, barrier line one direction and barrier line both directions)
    - edge lines
  - re-marking over existing lines for a minimum of five (5) kilometres of each of the following to the specified tolerance:

- centre line (to include separation line, barrier line one direction and barrier line both directions)
- edge lines

## Knowledge Evidence

The candidate must demonstrate knowledge in conducting thermo plastic road marking operations through:

- accessing, interpreting and applying legislative, organisation and site requirements and procedures for:
  - work, health and safety
  - equipment operation
  - operational, maintenance and basic diagnostics
  - JSAs/safe work method statements
  - housekeeping
- identifying and applying road markings
- identifying equipment types, characteristics, technical capabilities and limitations
- complying with project quality requirements
- identifying and using civil construction terminology
- complying with site isolation and traffic control responsibilities and authorities
- applying thermo plastic road marking activities and techniques
- using thermo plastic materials
- complying with safety data sheets and materials handling methods
- applying processes for the calculation of material requirements, application rates and travel speed
- being prepared for fire/accident/emergency

## 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

## Links

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