



**Australian Government**

# **Assessment Requirements for RIICWD524D Prepare design of spray seal surfacing**

**Release: 2**

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## Modification History

| Release | Comment                                                                                                                                                                                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | This unit replaces RIICWD524B Prepare design of spray seal surfacing                                                                                                                                                                                                                                         |
| 2       | 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. |

## 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 legislation, documentation, policies and procedures
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of and documentation of sprayed seal surfacing design including:
  - accessing and interpreting plans, drawings, specifications and design briefs
  - accessing and interpreting engineering survey and geotechnical information
  - accessing and interpreting hydrological, meteorological, cultural and heritage data
  - applying binder selection criteria, (including bitumen, bituminous emulsion and polymer modified binders)
  - applying requirements for the preparation of pavements for surfacing
- works effectively with others to undertake and complete the documentation of sprayed seal surfacing design that meets all of the required outcomes including:
  - using a range of communication techniques and equipment to convey information to others
  - maintaining written and verbal reporting requirements
  - organising work activities to meet all task requirements
  - communicating clearly and concisely with others to receive and clarify work instructions
- demonstrates completion of designs of spray seal surfacing that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
  - develop and apply design plans

- calculate of design traffic volumes, density, mass, grades, loads and stresses
- maintain design cost records
- maintain design records
- provide clarification and advice
- determine and applying binder application rates and aggregate spread rates
- interpret and apply Australian and other appropriate standards
- select and interpret sprayed seal surfacing selection data
- determine traffic category to be used in sprayed seal surfacing design
- identify and select sprayed seal surfacing options
- interpret and analysing data
- complete a detailed design of spray seal surfacing
- prepare a cost estimate
- participate in a design review
- obtain design approval
- complete and submit design cost
- review application of design and recommending changes

## Knowledge Evidence

The candidate must demonstrate knowledge in preparing design of spray seal surfacing through:

- applying legislative, organisation and site requirements and procedures for:
  - risk assessment and management
  - statutory compliance
  - work health and safety
  - applying equipment safety requirements
  - complying with emergency issues
  - complying environmental issues
  - verbal and written communication
  - Australian and other relevant standards
  - Industry and organisational design procedures and practice
  - current Industry best practice
  - sprayed seal surfacing construction tasks
  - design review
  - documentation and reporting
  - design approval
  - record keeping
  - performance reviews
- systems close out
- techniques for choosing preferred options

- team leadership techniques
- sprayed seal surfacing plant and equipment capabilities
- and applying cost estimation techniques

## 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 is best assessed in the context of this sector's work environment; and,
- outcomes of this unit that occur in an office-based setting may be assessed in a simulated 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; 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

Companion Volume implementation guides are found in VETNet -

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