



**Australian Government**

# **RIICRC320E Seal concrete pavements**

**Release: 1**

# RIICRC320E Seal concrete pavements

## 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 seal concrete pavements in civil construction, including selecting and using hand and power tools and sealing concrete pavements using sealer material and backer rods.

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 seal concrete pavements   | <ul style="list-style-type: none"><li>1.1 Obtain, interpret, clarify and confirm work requirements</li><li>1.2 Access, interpret and apply documentation required to seal concrete pavements and confirm work activity is compliant</li><li>1.3 Identify and address potential risks, hazards and environmental issues and implement control measures</li><li>1.4 Select and wear personal protective equipment according to site requirements</li><li>1.5 Identify, obtain, confirm and implement signage requirements</li><li>1.6 Select tools and equipment required to carry out tasks and check for faults</li></ul> |

| ELEMENT                                      | PERFORMANCE CRITERIA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2. Seal concrete pavements using hand tools  | 2.1 Clamp or fix materials in position according to job requirement<br>2.2 Use hand tools according to manufacturer specifications and job and site requirements<br>2.3 Store hand tools according to manufacturer specifications and site requirements when not in use<br>2.4 Monitor movements and hazards, identify and communicate changes to work environment according to site requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 3. Seal concrete pavements using power tools | 3.1 Check power leads and hoses according to manufacturer specifications and site requirements<br>3.2 Clear route for placement of leads and hoses according job and site requirements<br>3.3 Run electrical power leads to power supply according to site requirements<br>3.4 Connect electric power leads to power board or direct to power tool according to job and site requirements<br>3.5 Run air hoses to compressed air supply and cover potential trip hazards according to site requirements<br>3.6 Connect hose to power tool and air supply according to manufacturer specifications and site requirements<br>3.7 Use power tools according to manufacturer specifications and job and site requirements and store as required when not in use<br>3.8 Clean out and prepare for joint sealing according site requirements<br>3.9 Complete joint sealing records according to site requirements |
| 4. Conduct clean-up activities               | 4.1 Clear work area and dispose of, reuse or recycle materials according to site requirements<br>4.2 Clean, check, maintain and store machinery, tools and equipment according to manufacturer specifications and 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        | <ul style="list-style-type: none"> <li>Calculates basic measurements including masses and dimensions</li> </ul>                            |
| Self-management | <ul style="list-style-type: none"> <li>Monitors and minimises own exposure to worksite risks and hazards during work activities</li> </ul> |
| Writing         | <ul style="list-style-type: none"> <li>Completes documentation using sector specific vocabulary,</li> </ul>                                |

| SKILL | DESCRIPTION                            |
|-------|----------------------------------------|
|       | grammatical structures and conventions |

## Unit Mapping Information

Supersedes and is equivalent to RIICRC320D Seal concrete pavements.

## 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 RIICRC320E Seal concrete pavements

## Modification History

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

## 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:

- seal concrete pavements on at least two occasions, including:
  - selecting and using hand tools according to job requirements
  - selecting and using power tools according to job requirements
  - sealing concrete pavements using sealer material and backer rods
  - clearing work area and disposing of, reusing, recycling or storing materials
  - cleaning, checking, maintaining and storing plant, tools and equipment.

During the above, the candidate must:

- locate and apply required documentation, policies and procedures and confirm work activity is compliant
- implement the requirements, procedures and techniques to seal concrete pavements, including:
  - identifying and applying required specifications to all work activities
  - identifying, addressing and reporting potential hazards and risks
  - identifying, obtaining, confirming and implementing signage and barrier requirements
  - selecting and checking for faults all plant, tools and equipment required to carry out tasks
  - identifying, addressing and reporting environmental issues
- work with others to seal concrete pavements in way that meets required outcomes, including:
  - preparing for and organising work activities to meet task requirements
  - communicating with others to receive and clarify work instructions
  - using communication techniques and aids to advise others of work activity and exclusion zones

- monitoring movements and hazards and identifying and communicating changes to work environment.

## 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:

- policies, procedures and documentation required to seal concrete pavements, including those relating to:
  - site requirements
  - manufacturer specifications for required plant and equipment
  - relevant job specifications
  - hazard and risk management
  - environmental protection
  - work activity set up procedures
  - communication techniques and aids
  - site isolation, signage and erecting barriers
  - work health and safety
  - waste management
  - workplace recording and reporting
- types, characteristics, technical capabilities and limitations of equipment required to seal concrete pavements, including:
  - hand tools, including:
    - blowout pipes
    - spline rollers
    - brooms
    - measuring tapes
    - rulers and depth gauges
  - power tools, including the following power types:
    - electric
    - pneumatic
    - battery
    - hydraulics
- principles and techniques for effective concrete pavement sealing, including:
  - techniques for selecting and using hand and power tools
  - concrete pavement sealing techniques, including use of:
    - sealer materials
    - backer rods.

## Assessment Conditions

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

- include access to:
  - personal protective equipment
  - equipment required to seal concrete pavements
- 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 (RTOs) 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 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 Companion Volume 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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