



**Australian Government**

# **RIICRC302D Place and form concrete kerb, channel and fixtures**

**Release: 2**

# RIICRC302D Place and form concrete kerb, channel and fixtures

## Modification History

| Release | Comment                                                                                                                                                                                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1       | This unit replaces RIICRC302A Place and form concrete kerb, channel and fixtures                                                                                                                                                                                                                             |
| 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. |

## Application

This unit describes a participant's skills and knowledge required to place and form concrete kerb, channel and fixtures 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 place and form concrete kerb, channel and fixtures | 1.1 Access, interpret and apply concrete kerb, channel and fixtures documentation and ensure the work activity is compliant<br>1.2 Obtain, read, interpret, clarify and confirm work requirements<br>1.3 Identify and address potential risks, hazards and environmental issues, and implement control measures<br>1.4 Select and wear correct personal protective equipment appropriate for work activities |
| 2. Set out and prepare for construction/                                  | 2.1 Identify and protect existing services to prevent damage<br>2.2 Set out location of kerb, channel and/or fixtures to dimensions                                                                                                                                                                                                                                                                          |

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| installation                                       | <p>from drawings and specifications or to pre-set pegs</p> <p>2.3 Set out driveways and other inverts</p> <p>2.4 Check grades to ensure correct fall</p> <p>2.5 Construct formwork and check to ensure compliance with specifications</p> <p>2.6 Complete services and conduit preparation in accordance with relevant procedures</p>                                                                                                  |
| 3. Form kerb and barrier strips                    | <p>3.1 Maintain vertical and horizontal alignment during concrete placement</p> <p>3.2 Place concrete accurately to string line</p> <p>3.3 Maintain concrete to specified standard</p> <p>3.4 Mix and apply mortar at quality and quantity to achieve specified finish</p>                                                                                                                                                             |
| 4. Pour concrete to installed formwork             | <p>4.1 Place and compact concrete into formwork</p> <p>4.2 Finish surface to alignment specifications</p> <p>4.3 Remove face formwork without damage to concrete following concrete set</p>                                                                                                                                                                                                                                            |
| 5. Finish kerbs, channels and fixtures             | <p>5.1 Finish job to shape in accordance with specifications or to the relevant Australian standard</p> <p>5.2 Finish concrete to specified quality and texture</p> <p>5.3 Position expansion, construction and dowel joints to specification</p> <p>5.4 Cure and protect finished work during process</p>                                                                                                                             |
| 6. Install pre-cast concrete units                 | <p>6.1 Prepare base section and finish to specification for pre-cast unit installation</p> <p>6.2 Install and join pre-cast concrete units</p>                                                                                                                                                                                                                                                                                         |
| 7. Repair kerb, gutters and median, barrier strips | <p>7.1 Identify damaged areas, assess repair requirements and carefully remove or repair damaged section</p> <p>7.2 Set up formwork or slip form machine and use to replace removed section</p> <p>7.3 Place concrete accurately to correct alignment using concrete to the specified mix</p> <p>7.4 Finish concrete to specification matching the shape of the kerb or gutter in place</p> <p>7.5 Clear, backfill and finish area</p> |

|    |          |     |                                                      |
|----|----------|-----|------------------------------------------------------|
| 8. | Clean up | 8.1 | Clear work area and dispose of or recycle materials  |
|    |          | 8.2 | Clean, maintain, check and store tools and equipment |

## 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

RIICRC302A Place and form concrete kerb, channel and fixtures

## 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 RIICRC302D Place and form concrete kerb, channel and fixtures

### Modification History

| Release | Comment                                                                                                                                                                                                                                                                                                      |
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### 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
- implements the requirements, procedures and techniques for the safe, effective and efficient completion of placing and forming concrete kerbs, channels and fixtures including:
  - accessing, interpreting and applying documentation relevant to the placing and forming concrete kerb, channel and fixtures
  - identifying and applying relevant drawings and job specifications to all work activities
  - identifying, addressing and reporting potential hazards and risks
  - identifying, obtaining, confirming and implementing signage requirements
  - selecting and checking for faults all plant, tools and equipment to carry out tasks
  - identifying, addressing and reporting environmental issues and ground conditions
- works effectively with others to undertake and complete the placing and forming of concrete kerbs, channels and fixtures that meets all of the required outcomes including:
  - preparing for and organising work activities to meet all task requirements
  - communicating clearly and concisely with others to receive and clarify work instructions
  - using a range of communication techniques and aids to advise others of work activity and exclusion zones
  - monitoring hazards and identifying and communicating changes to the work environment during the work process

- demonstrates completion of place and form concrete kerb, channel and fixtures that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
  - setting out and preparing for construction/installation in compliance with drawings and specifications requirements
  - forming kerb and barrier strips by placing concrete and applying mortar to specifications requirements
  - pouring concrete into installed formwork
  - finishing kerbs, channels and fixtures
  - installing pre-cast concrete units and finishing to specifications
  - repairing kerb, gutters and median, barrier strips
  - clearing, backfilling and finishing work areas
  - clearing work area and disposing of, recycling or storing materials

## Knowledge Evidence

The candidate must demonstrate knowledge in placing and forming concrete kerb, channel and fixtures through:

- applying organisation and site requirements and procedures for:
  - identifying and managing risks
  - identifying, addressing and reporting environmental issues and ground conditions
  - setting up work activity
  - site isolation and traffic control responsibilities
  - work health and safety
  - managing waste
  - selecting and checking for faults, tools and equipment to carry out tasks
  - carrying out work to drawings and specifications
  - applying effective place and form concrete kerb, channel and fixture 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 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

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