



Australian Government

RIICRC315D Use concreting materials and equipment

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIICRC315 Use concreting materials and equipment
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 use concreting materials and equipment in Civil Construction.

This unit is appropriate for those working in operational roles.

No licensing, legislation, or certification requirements apply to this unit at the time of publication.

Unit Sector

Civil construction

Elements and Performance Criteria

1. Plan and prepare to use concreting materials and equipment	1.1 Access, interpret and apply concrete materials and equipment documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret, clarify and confirm work requirements 1.3 Identify and address potential risks, hazards and environmental issues, and implement control measures 1.4 Select and wear correct personal protective equipment appropriate for work activities 1.5 Identify, obtain, confirm and implement signage requirements 1.6 Select and check for faults all plant, tools and equipment to carry out tasks
2. Identify and select hand and power	2.1 Identify and select hand and power tools, according to their functions, operations, limitations and ability to meet the job

tools	requirement 2.2 Check lubricants, hydraulic fluid and water 2.3 Check tools, including leads and hoses, for tags, serviceability and safety, and report any faults 2.4 Check and maintain power tool guards, retaining bolts, couplings, gauges and controls in accordance with manufacturer recommendations 2.5 Select equipment to hold or support material during operation
3. Use tools	3.1 Use hand tools appropriate to the task and materials 3.2 Use power tools for their intended purpose safely and effectively 3.3 Sharpen and maintain tools
4. Identify, select and use plant and equipment	4.1 Check plant and equipment for safety and report faults 4.2 Select and use plant and equipment matched to the work task 4.3 Check lubricants, hydraulic fluid and water 4.4 Maintain plant and equipment
5. Clean up	5.1 Clear the work area and dispose of, reuse or recycle material 5.2 Clean, check, maintain and store plant, tools and equipment in accordance with manufacturer recommendations and standard work practices

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

RIICRC315A Use concreting materials and equipment

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 RIICRC315D Use concreting materials and equipment

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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 use of concrete materials and equipment including:
 - accessing, interpreting and applying documentation relevant to using concreting materials and equipment
 - identifying and applying relevant 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
- works effectively with others to undertake and complete the use of concrete materials and equipment in a way 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 movements and hazards and identifying and communicating changes to the work environment during the work process

- demonstrates completion of the use of concrete materials and equipment that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:
 - identifying and verifying use for concrete materials including:
 - aggregates
 - cement
 - form release agents
 - non-toxic materials, including general concreting materials
 - sand
 - water
 - identifying and verifying concrete material components including:
 - bar chairs
 - bracing
 - plastic membrane
 - reinforcement mesh
 - spacers
 - steel and timber formwork
 - identifying and using the correct handling procedures for the following:
 - calculation of quantities
 - manual handling, including:
 - carrying materials using correct lifting techniques
 - control of waste
 - using pallets
 - Safety Data Sheets (SDS)
 - protection of materials
 - stacking and storing of materials
 - identifying, selecting and using concrete tools and carrying out required checks prior to use including:
 - floats
 - shovels
 - screeds
 - vibrating equipment
 - using relevant tools appropriate to the task and materials
 - identifying, selecting and using and maintaining plant and equipment
 - clearing work area and disposing of, recycling or storing materials cleaning, checking, maintaining and storing plant, tools and equipment

Knowledge Evidence

The candidate must demonstrate knowledge in using concreting materials and equipment through:

- accessing, interpreting and applying the organisation and site requirements and procedures for:
 - identifying and managing risks
 - identifying, addressing and reporting environmental issues
 - setting up work activity
 - signage, erecting barriers and traffic control
 - work health and safety
 - managing waste
 - selecting and checking for faults, tools and equipment to carry out tasks
 - carrying out work to specifications
 - manufacturer's design specifications
 - applying effective techniques for the use of concreting materials and equipment

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	1	1 Year

Mining, Extractive (Quarrying) and Civil Construction	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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