



Australian Government

RIICRC323D Insert tie bars in fresh concrete

Release: 2

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Modification History

Release	Comment
1	This unit replaces RIICRC323 Insert tie bars in fresh concrete
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 insert tie bars in fresh concrete 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 insert tie bars in fresh concrete	1.1 Access, interpret and apply insert tie bars 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 and implement signage requirements 1.6 Select and check for faults to plant, tools and equipment, to carry out tasks
2. Setup operations	2.1 Verify quantity of bars required for the task 2.2 Inspect and confirm bars are fit for purpose

	2.3 Inspect and confirm saw cut locations are marked out or programmed into paving computer as per site specifications 2.4 Check automatic program spacing 2.5 Check tie bar spacing and variations conform to plans 2.6 Check for safe operations and confirm operation of emergency stops
3. Operate tie bar system	3.1 Maintain safe working area around tie bar inserter 3.2 Maintain adequate stock of bars at tie bar inserter 3.3 Operate and monitor mechanical or manual tie bar insertion for correct location, alignment and depth (if sidebars) 3.4 Report missed bars or jamming immediately 3.5 Ensure location of any missed or noncompliant insertion is recorded 3.6 Ensure concrete is fully compacted around the tie bar 3.7 Ensure magazine is sufficiently loaded at all times 3.8 Operate hiab (if fitted) to load magazine safely and accurately 3.9 Load magazine by hand according to correct procedures 3.10 Monitor movements and hazards and identify and communicate changes to the work environment during the work process
4. Clean Up	4.1 Clear work area and dispose of, reuse or recycle materials 4.2 Clean, check, maintain and store machinery, tools and equipment Return unused stock bars to store

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

RIICRC323A Insert tie bars in fresh concrete

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 RIICRC323D Insert tie bars in fresh concrete

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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 insertion of tie bars into fresh concrete including:
 - accessing, interpreting and applying documentation for inserting tie bars into fresh concrete
 - identifying and applying relevant 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 to carry out tasks
 - identifying, addressing and reporting environmental issues
- works effectively with others to undertake the insertion of tie bars into fresh concrete 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
 - monitoring movements and hazards and identifying and communicating changes to the work environment during the work process
- demonstrates completion of inserting tie bars in fresh concrete that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:

- setting up for safe operations
- operating tie bar system to specifications
- clearing work area and disposing of, recycling or storing materials
- cleaning, checking, maintaining and storing plant, tools and equipment
- identify and correctly mark onsite changes in tie bar spacing from the plans
- Conduct insertion and compaction of tie bars to correct depth over seventy-five (75) linear metres on a minimum of three (3) occasions
- load a magazine on at least one occasion in accordance with manufacturer's procedures
- set out manually inserted tie bars and corresponding saw cuts

Knowledge Evidence

The candidate must demonstrate knowledge in inserting tie bars in fresh concrete through:

- accessing, interpreting and applying the organisation and site requirements and procedures for conducting road construction paver screeding operations for:
 - identifying and managing risks
 - identifying, addressing and reporting environmental issues
 - setting up work activity
 - site isolation, signage and erecting barriers
 - work health and safety
 - managing waste
 - tools and equipment operations and capabilities
 - selecting and checking for faults, tools and equipment to carry out tasks
 - carrying out work to specifications
 - applying effective techniques for inserting tie bars into fresh concrete

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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