



Australian Government

RIICCM204D Place and fix reinforcement materials

Release: 3

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Modification History

Release	Comment
1	This unit replaces RIICCM204A Place and fix reinforcement materials.
2	Editorial corrections Amended Performance Evidence.
3	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 fix reinforcement materials 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 for placing and fixing reinforcement materials	1.1 Access, interpret and apply reinforcement materials documentation and ensure the work activity is compliant 1.2 Obtain, read, interpret clarify and confirm work requirements 1.3 Identify, obtain and implement traffic signage/barricade requirements 1.4 Select, and check for faults, equipment/tools for work activities 1.5 Check stock of required reinforcement materials 1.6 Identify and apply environmental protection requirements
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	1.7 Select and wear correct personal protective equipment 1.8 Obtain and interpret emergency procedures, and be prepared for fire/accident/emergency
2. Reinforcement preparation	2.1 Check formwork for completion and conformity to receive reinforcement 2.2 Cut and bend reinforcement bars to required set out and plans/specifications 2.3 Tie bars to designed configuration 2.4 Cut reinforcement sheets to required sizes 2.5 Attach stiffening rods to panels as required to facilitate handling processes 2.6 Locate bar chairs/spacers to requirements of reinforcement schedule and plans/specifications
3. Place and fix reinforcement	3.1 Place fabric reinforcement sheets into position in accordance with engineer's drawings and specifications 3.2 Locate and position reinforcement bars 3.3 Locate and place reinforcement using bar chairs, ligatures and spacers 3.4 Ensure reinforcement material is supported and secured into position 3.5 Secure cast-in items to reinforcement 3.6 Cover and protect ends of protruding reinforcement material
4. Check reinforcement prior to concrete pour	4.1 Check location and position of reinforcement and fixing ties to reinforcement for accuracy 4.2 Check depth of coverage, clearance, spacing and overlap of reinforcement material in accordance with engineer's drawings/job specifications
5. Conduct housekeeping activities	5.1 Clear work area and dispose of or recycle materials 5.2 Clean and maintain condition of equipment, ensure suitability for use, and address/report issues 5.3 Manage/report hazards, and maintain a safe working environment 5.4 Process written records

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

RIICCM204A Place and fix reinforcement materials

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 RIICCM204D Place and fix reinforcement materials

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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 the placing and fixing of reinforcement materials including:
 - selecting and using relevant tools and equipment
 - completing formwork
 - completing concreting
 - checking stock of reinforcement materials for correct type and quantity against reinforcement schedule and details in plans/specifications
 - communicating effectively to clarify instructions/information
 - completion of housekeeping activities
- works effectively with others to undertake and complete the placing and fixing reinforcement materials in a way that meets all of the required outcomes including:
 - using a range of communications techniques and equipment
 - complying with written and verbal reporting requirements and procedures
- demonstrates completion of placing and fixing reinforcement materials that safely, effectively and efficiently meets all of the required outcomes on more than one (1) occasion including:

- completing the placement and fixing of reinforcement materials to specification on different jobs and involving deformed bars, rods and mesh sheets

Knowledge Evidence

The candidate must demonstrate knowledge of the following when placing and fixing reinforcement materials:

- accessing, interpreting and applying the organisation and site requirements and procedures for:
 - identifying and reporting on hazards
 - using operational tools and equipment safely and effectively
 - achieving project quality and accuracy
 - using JSA's/JSEA/Safe work methods
 - site isolation and traffic control
- planning and organising work activities
- working with civil construction terminology
- reading and interpreting engineering drawings
- identifying steel reinforcement characteristics
- identifying concrete characteristics and properties
- using structural technology
- using construction principles
- identifying equipment types, characteristics, technical capabilities and limitations
- using safety data sheet and materials handling methods
- carrying out operational, maintenance and basic diagnostic procedures

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;
- where personal safety or environmental damage are limiting factors, assessment may occur 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

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