



Australian Government

CPCCSF2004 Place and fix reinforcement materials

Release: 1

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Modification History

Release 1.

Supersedes and equivalent to CPCCSF2004A Place and fix reinforcement materials.

The unit of competency was updated to the Standards for Training Packages 2012.

This version first released with CPC Construction, Plumbing and Services Training Package Version 4.0.

Application

This unit of competency specifies the skills and knowledge required to place and fix reinforcement for concrete work as part of construction processes.

It includes:

- planning and preparing for the work
- final preparation for placement
- placing and fixing reinforcement
- checking the reinforcement
- completing clean-up activities.

It applies to concreters working as members of a team.

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

Pre-requisite Unit

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

Unit Sector

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe what needs to be done to demonstrate achievement of the element.
1. Plan and prepare to place and fix reinforcement materials.	1.1 Review and clarify task to place and fix reinforcement materials. 1.2 Review task specifications and check to make sure they are in accordance with legislation, regulations and codes of practice. 1.3 Review work health and safety (WHS) requirements for the

	task in accordance with safety plans and policies. 1.4 Identify safety signage and barricade requirements. 1.5 Review environmental requirements for the task in accordance with environmental plans and legislative requirements. 1.6 Select plant, tools and equipment, check for serviceability and rectify or report any faults. 1.7 Check stock of reinforcement materials for correct type, quality and quantities against reinforcement schedule and details in plans/specifications. 1.8 Acquire materials for the task and locate them safely ready for use.
2. Prepare for reinforcement placement.	2.1 Erect identified safety signage and barricades, and fit personal protective equipment (PPE). 2.2 Check formwork for completion and conformity to receive reinforcement. 2.3 Cut and bend reinforcement bars to required set out and plans and specifications. 2.4 Tie bars to designed configuration from plans and specifications. 2.5 Cut reinforcement sheets to required sizes. 2.6 Attach stiffening rods to panels as required to facilitate handling processes. 2.7 Locate bar chairs and spacers to requirements of reinforcement schedule, plans and specifications.
3. Place and fix reinforcement.	3.1 Place fabric reinforcement sheets into position in accordance with engineering drawings and specifications. 3.2 Locate and position reinforcement bars in accordance with engineering drawings and specifications. 3.3 Locate and place reinforcement using bar chairs, ligatures and spacers in accordance with engineering drawings and specifications. 3.4 Support and secure reinforcement material into position in accordance with engineering drawings and specifications. 3.5 Secure cast-in items to reinforcement in accordance with engineering drawings and specifications. 3.6 Cover and protect ends of protruding reinforcement material in accordance with plans and specifications.
4. Check reinforcement prior to	4.1 Check location and position of reinforcement, and of fixing ties to reinforcement for accuracy.

concrete pour.	4.2 Check depth of coverage, clearance, spacing and overlap of reinforcement material in accordance with engineering drawings and job specification.
5. Clean up after placing and fixing reinforcement materials.	5.1 Clear work area and dispose of, re-use or recycle materials in accordance with legislation, regulations, codes of practice and task requirements. 5.2 Clean, check, maintain and store plant, tools and equipment in accordance with manufacturers' specifications and workplace requirements.

Foundation Skills

This section describes the language, literacy, numeracy and employment skills essential to performance in this unit but not explicit in the performance criteria.

- oral communication skills to:
 - use questioning to identify and confirm requirements
 - discuss cause of problems
 - report work site hazards, including faults in tools, equipment and materials
 - provide feedback.

Unit Mapping Information

Supersedes and is equivalent to CPCCSF2004A Place and fix reinforcement materials.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCCSF2004 Place and fix reinforcement materials

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Performance Evidence

To demonstrate competency in this unit, a person must place and fix reinforcement materials on a minimum of three different jobs, each including deformed bars, rods and mesh sheets.

In doing this, the person must meet the performance criteria for this unit.

Knowledge Evidence

To be competent in this unit, a person must demonstrate knowledge of:

- jurisdictional work health and safety (WHS) and environmental legislation and regulations relating to placing and fixing reinforcement materials, including:
 - job safety analyses (JSAs)
 - safe work method statements (SWMSs)
 - safety data sheets (SDSs)
 - safety manuals and instructions for plant, tools and equipment
 - signage and barricades
 - personal protective equipment (PPE)
 - environmental and work site safety plans
- requirements of Australian Standards and the National Construction Code (NCC) relating to placing and fixing reinforcement materials
- workplace requirements for all aspects of placing and fixing reinforcement materials, including interpreting work orders and reporting problems
- reinforcement materials, including:
 - bar chairs
 - deformed bars
 - ligatures
 - mesh sheets of deformed bars
 - mesh sheets of plain bars
 - plain rods
 - spacer/spreader assemblies

- wire ties
- uses, care and limitations of tools and equipment for placing and fixing reinforcement materials, including:
 - bolt cutters
 - measuring tapes and rules
 - mesh guillotines
 - reinforcement benders
 - tie wire reels
 - wire nippers
- types, characteristics, uses and limitations of tools, equipment and materials required for placing and fixing reinforcement materials, including:
 - safe operating procedures
 - operational, maintenance and basic diagnostic procedures
 - workplace and equipment safety requirements
- techniques for placing and fixing reinforcement materials
- quality requirements relevant to placing and fixing reinforcement materials
- processes, materials and equipment for placing and fixing reinforcement materials
- types and applications of reinforcement materials
- requirements for cleaning up work area and tools, materials storage and environmentally friendly waste management.

Assessment Conditions

Assessors must satisfy the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment of performance must be undertaken in the workplace or in a simulated workplace environment. Tasks are to be performed to the level of proficiency and within the time limits expected in a workplace.

Assessors are responsible for ensuring that the person demonstrating competency has access to:

- work sites and specifications for placing and fixing reinforcement materials
- appropriate documents, materials, tools, equipment and PPE currently used in industry
- requirements of appropriate sections of legislation and regulations
- relevant workplace policies and procedures.

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