



Australian Government

CPCCSF3004 Carry out stressbar post-tensioning

Release: 2

CPCCSF3004 Carry out stressbar post-tensioning

Modification History

- Release 2 Updated reference to general construction induction training program.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCCSF3004A Carry out stressbar post-tensioning. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to carry out stressbar post-tensioning in accordance with specifications. It includes planning and preparing for the work; placing and inspecting bars, components and ducts; defining the work area; stressing bars; finishing the tensioning; and cleaning up.

It applies to workers carrying out stressbar post-tensioning for a construction project, and who would be expected to take responsibility for organising and completing these tasks with a high degree of self direction.

Completion of the general construction induction training program, specified in the Safe Work Australia model *Code of Practice: Construction Work*, is required by anyone carrying out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

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

Steelfixing

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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| 1 Plan and prepare to | 1.1 Interpret work order and associated documentation and |
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carry out stressbar post-tensioning.		clarify requirements with relevant persons.
	1.2	Plan all work to comply with relevant legislation, regulations, standards, codes, work health and safety (WHS), environmental and workplace requirements.
	1.3	Select tools and equipment required for work tasks, check for serviceability and rectify or report identified faults.
	1.4	Calculate materials quantities and curing requirements.
	1.5	Obtain, prepare and safely handle materials for the task, and situate them ready for use.
	1.6	Erect required safety signage and barricades and fit personal protective equipment (PPE).
2 Place and inspect bar, fit components and seal ducts.	2.1	Place bar and fit components in accordance with manufacturer requirements and task specifications.
	2.2	Inspect bar layout for compliance with task specifications and relevant standards.
	2.3	Seal ducts in accordance with manufacturer requirements.
3 Define work area for stressbar post-tensioning.	3.1	After suitable curing time, define safe working area in accordance with WHS and regulatory requirements.
	3.2	Erect barricades and signage as required to isolate safe work areas.
4 Stress bars.	4.1	Place stressing jack and accessories and carry out stressing in accordance with manufacturer requirements and engineering specifications.
	4.2	Tighten and lock off nuts during stressing procedure in accordance with normal stressing safety standards.
	4.3	Measure extensions and record on standard quality assurance forms for approval by engineer.

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| 5 | Finish tensioning. | 5.1 | Seal anchorages to prevent grout loss. |
| | | 5.2 | Mix cement grout and pump in accordance with specifications and relevant standards. |
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| 6 | Clean up. | 6.1 | Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements. |
| | | 6.2 | Clean, check, maintain and store tools and equipment in accordance with manufacturer and workplace requirements. |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to CPCCSF3004A Carry out stressbar post-tensioning.

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>