



Australian Government

CPCPRE4001 Inspect the erection of prefabricated concrete elements

Release: 1

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Modification History

Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 9.0.

Newly created unit.

Application

This unit of competency specifies the skills and knowledge required to inspect the erection of prefabricated concrete elements on a construction site. It includes the inspection of safe work practices during the erection and temporary support of prefabricated concrete elements and the inspection of the erected elements.

It requires overseeing the use of plant, tools and equipment appropriate for the installation of prefabricated concrete elements and associated structural components, including temporary supports (propping and bracing), temporary and permanent connections, grouting, and vertical and horizontal joints.

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.

Licensing, legislative, regulatory or certification requirements apply to this unit of competency in some states and territories. For further information, check with the relevant regulatory authority.

Pre-requisite Unit

- CPCCLRG3002 Licence to perform rigging intermediate level
- CPCCCM2012 Work safely at heights

Unit Sector

Prefabricated Concrete

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. Prepare to inspect the erection of prefabricated concrete elements. | 1.1 | Check the prefabricated concrete element records to ascertain progress and prepare for the physical inspection of the prefabricated concrete elements. |
| | 1.2 | Check prefabricated concrete element records to ensure that safe systems of work and safe work practices have been enforced and followed. |
| | 1.3 | Check prefabricated concrete element manufacturing and inspection records to confirm design specifications have been followed in accordance with AS 3850 Prefabricated concrete elements during manufacture, storage, lifting and handling through to installation and final fixing. |
| 2. Conduct inspection of the erection of prefabricated concrete elements. | 2.1 | Inspect safety systems and ensure that workers and contractors are following safety requirements during the erection of the prefabricated concrete elements. |
| | 2.2 | Inspect placement and storage arrangements of prefabricated concrete elements onsite and ensure they conform to the erection documentation as detailed in AS 3850 Prefabricated concrete elements. |
| | 2.3 | Inspect processes to ensure erection areas are cleared, exclusion zones set up, barriers erected, and site personnel advised of restricted access areas prior to erection of prefabricated concrete elements. |
| | 2.4 | Inspect and confirm that fixings supplied for attachments to the permanent structure and for temporary supports comply with the requirements of the erection documentation approved by relevant personnel, AS 3850 Prefabricated concrete elements and the project specifications. |
| | 2.5 | Inspect and confirm that temporary supports, dowels and shims are correctly placed, and components positioned in accordance with the erection documentation as detailed in AS 3850 Prefabricated concrete elements and project specifications. |
| 3. Inspect prefabricated concrete element | 3.1 | Inspect and confirm that the erected prefabricated concrete elements comply with the erection |

stability.

documentation approved by relevant personnel as detailed in AS 3850 Prefabricated concrete elements and engineering specifications.

- 3.2 Inspect and confirm that fixtures between structural steel components and temporarily supported elements comply with the erection documentation approved by relevant personnel and as detailed in AS 3850 Prefabricated concrete elements and engineering specifications.
- 3.3 Inspect and confirm that all grouting, including breathers and grout tubes, are sufficiently filled and gained suitable strength.
- 3.4 Ensure that temporary supports are removed and/or moved, re-positioned or replaced only with the written approval of the project design engineer in accordance with AS 3850 Prefabricated concrete elements.
- 3.5 Oversee the safe removal of temporary bracing, plant and equipment from site.
- 3.6 Check if damage has occurred and if so, identify and consult the appropriate person to arrange for repair.
- 3.7 Inspect the completion of the erection work and clearing and cleaning of work areas prior to other trades being permitted to enter work zones.

Foundation Skills

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

Unit Mapping Information

No equivalent unit.

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>