



Australian Government

Assessment Requirements for CPCPRE4001 Inspect the erection of prefabricated concrete elements

Release: 1

Assessment Requirements for CPCPRE4001 Inspect the erection of prefabricated concrete elements

Modification History

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

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by:

- inspecting three prefabricated concrete elements, including one braced prefabricated concrete wall panel with completed connections, grouting and caulking to ensure that the elements are compliant with AS 3850 Prefabricated concrete elements
- identifying reporting arrangements and rectification processes for occasions when damage has occurred, and repair is required.

Knowledge Evidence

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

- compliance requirements of legislation, regulations, codes of practice and Australian Standards relevant to the erection of prefabricated concrete elements, including:
 - AS 3850.1, 2 & 3 Prefabricated concrete elements
 - environmental protection and waste disposal
 - work health and safety (WHS) regulations, including:
 - Safe Work Australia ‘Guide to managing risk in construction’ 2019
 - hierarchy of control
 - hazard identification
 - emergency first aid
 - emergency shutdown and stopping
 - risk when working at heights/on ladders
 - fall arrest equipment
 - scaffolding
 - access equipment
 - electrical hazards
 - overhead hazards
 - confined spaces

- relevant WHS policies and codes of practice, including:
 - national standard for construction work and the code of practice for construction work
 - use of personal protective equipment (PPE)
 - fall protection
 - drop zones
 - hazardous substances
 - safe manual handling techniques
 - health risks associated with silica dust exposure
- erection design documentation
- inspection site requirements:
 - administrative
 - training and risk management
 - consultation and cooperation
 - scheduling and contract adherence
 - safe work method statements (SWMS)
 - drawings and specifications for prefabricated concrete installation requirements
- effects of temperature, wind and low humidity on the properties of prefabricated concrete:
 - detrimental effect of water addition to concrete properties
 - precautions that should be taken to minimise any potential adverse effects when finishing concrete
- prefabricated concrete element records, including:
 - set-out and marking plans
 - element manufacturing records
- temporary prefabricated concrete element supports, including:
 - braces
 - props
- prefabricated concrete brace and prop specifications, including:
 - placement of props
 - erection sequence
 - orientation of prefabricated concrete components
 - bracing details, including type and angle
 - requirement for erection brace and prop footings
 - levelling shims
 - types of fixings approved for attachment of support elements and their identification
 - types of fixings approved for the attachment of prefabricated concrete elements to other structural elements and the final structure
 - required installation procedures for fixings
 - methods for identification of incorrect fixing installation
- project plans, drawings and specifications for prefabricated element work
- processes, procedures and techniques for:

- lifting and placing prefabricated element panels
- securing panels to base
- levelling and plumbing panels
- temporary bracing panels
- grouting, bracing, torquing, stabilisation and fixing of panels
- competency and licensing requirements to operate plant and equipment and carry out prefabricated element panel work
- capacity and limitations of plant, lifting gear and equipment used in prefabricated element work
- capacity and limitations of rigging and equipment
- workplace requirements when working with prefabricated concrete components:
 - cleaning up the work area
 - maintaining and storing plant, labelling, tools and equipment
 - reporting problems
 - quality
- possible defects, including:
 - strength of concrete which could compromise the strength of the prefabricated elements and pose a potential safety issue for lifting and handling
 - faulty manufacturing
- types of concrete prefabricated concrete components
- fire rating requirements relevant to concrete prefabricated concrete component rectification
- workplace procedures related to communication protocols
- principles of sustainability relevant to material reuse
- work planning and logical task sequencing
- types, characteristics and limitations of tools, equipment and materials required for prefabricated concrete erections, including:
 - chain slings
 - flexible steel wire rope (FSWR) slings
 - air winches
 - chain blocks
 - chain blocks
 - drifts
 - eye bolts
 - hammers
 - jacks
 - podgers
 - pulley blocks
 - shackles
 - spanners
 - spirit levels and automatic levels

- tape measures
- trolleys
- turn buckles
- wedges
- wrenches.

Assessment Conditions

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

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to relevant government building and construction industry codes and standards, erection design documentation, manufacturer specifications, materials, plant, tools and equipment required to achieve the performance evidence.

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>