Unit of Competency Template

UNIT CODE	**CPCPRE2002**
UNIT TITLE	**Remove temporary supports from prefabricated concrete elements**
APPLICATION	This unit of competency specifies the skills and knowledge required to remove temporary bracing and propping supports from prefabricated concrete elements. It requires using appropriate tools, equipment, materials and working in a team environment. A person who has achieved this unit of competency would be expected to follow safety regulations and relevant specifications. 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.
PREREQUISITE UNIT	
COMPETENCY FIELD	
UNIT SECTOR	**Prefabricated concrete**
ELEMENTS **Elements describe the essential outcomes.**	**PERFORMANCE CRITERIA** **Performance criteria describe the performance needed to demonstrate achievement of the element.**

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1. Access the requirements to remove temporary supports from prefabricated concrete elements.	1.1 Check the erection design documentation and obtain written approval for the removal of temporary supports from relevant personnel. 1.2 Review task specifications and check to ensure they comply with legislation, regulations, standards 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. 1.3 1.5 Review environmental requirements for the task in accordance with environmental plans and legislative requirements. 1.6 Access tools and equipment required to carry out task. 1.7 Access set-out drawings and erection design documentation to verify the location of prefabricated concrete element.
2. Prepare to remove temporary supports from prefabricated concrete elements.	2.1 Erect identified safety signage and barricade requirements, and fit personal protective equipment (PPE). 2.2 Obtain tools, equipment, check for serviceability and rectify or report any faults. 2.3 Ensure the work is complete and that written approval from the in-service design engineer has been obtained so that removal of temporary supports can commence.
3. Conduct the removal of temporary supports from prefabricated concrete elements.	3.1 Review the approved removal plan and to access information on job sequencing and team roles. 3.2 Confirm load mass and load distribution. 3.3 Assemble and erect lifting/handling devices for movement of loads. 3.4 Sling and shift load in accordance with erection design documentation, job safety and environmental analysis (JSEA) and safe work method statement (SWMS). 3.5 Maintain stability of load during, lifting and transportation. 3.6 Systematically remove braces and associated parts from prefabricated concrete elements and footings in accordance with the erection design documentation, the job safety and environmental analysis (JSEA) and safe work method statement (SWMS). 3.7 Systematically dismantle and remove props and associated parts from prefabricated concrete elements in accordance with the erection design documentation, the job safety and environmental analysis (JSEA) and safe work method statement (SWMS).
4. Clean up.	4.1 Clear work area and dispose of, reuse or recycle materials in accordance with regulatory and workplace requirements. 4.2 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	No equivalent unit.
LINKS	Link to Companion Volume Implementation Guide.

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TITLE	**CPCPRE2002- Remove temporary supports from prefabricated concrete elements**
PERFORMANCE EVIDENCE	To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by • removing bracing and propping supports from two prefabricated concrete elements, one of which must be a prefabricated concrete wall panel element of a height not less than 7 metres and width 3 metres.

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KNOWLEDGE EVIDENCE	To be competent in this unit, a candidate must demonstrate knowledge of:
	• compliance requirements of legislation, regulations, codes and Australian Standards relevant to joint caulking of prefabricated concrete elements:
	  ○ AS3850.1, 2 & 3 'prefabricated concrete elements'
	  ○ environmental protection and waste disposal
	  ○ OHS/WHS regulations, including Safe Work Australia 'Guide to managing risk in construction: prefabricated concrete' 2019
	• the strength of concrete at the time of lifting and handling from the manufacturers' "birth certificate" contained in the erection documentation
	• faulty manufacturing and concrete defects which could compromise the strength of the prefabricated elements and pose a potential safety issue for lifting and handling
	• types of drawings and specifications used to interpret concrete installation requirements
	• erection documentation
	• prefabricated concrete brace and prop specifications, including:
	  ○ erection sequence
	  ○ orientation of prefabricated concrete elements
	  ○ bracing details including type and angle
	  ○ requirement for erection brace and prop footings
	  ○ levelling shims
	  ○ drawings
	• types of bracing, including:
	  ○ single storey (Drop-in) panel propping
	  ○ double storey (Spin-up) panel propping
	  ○ panel to panel propping
	  ○ beam propping
	  ○ spandrels propping
	  ○ column bracing
	  ○ lateral bracing
	  ○ end bracing
	  ○ main bracing
	  ○ knee bracing
	  ○ deadman bracing
	• associated brace parts, including:
	  ○ bolts
	  ○ anchors
	  ○ knee braces
	• types of propping, including:
	  ○ single props (Acrow)
	  ○ single frame
	  ○ continuous frame
	• associated prop parts, including:
	  ○ scaffold
	  ○ acrow props
	  ○ frames

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	○ bolts ○ bracing • types of concrete prefabricated elements, including: ○ panels ○ columns ○ beams ○ planks ○ stairs ○ barriers • workplace requirements when working with prefabricated concrete elements: ○ cleaning up the work area ○ maintaining and storing plant, labelling, tools and equipment ○ adhering to manufacturer specifications ○ reporting problems ○ quality • types of prefabricated concrete elements • fire rating requirements relevant to prefabricated concrete elements • workplace procedures related to communication protocols • relevant OHS/WHS regulations, policies and codes of practice, including: ○ use of personal protective equipment (PPE) ○ fall protection ○ drop zones ○ hazardous substances ○ safe manual handling techniques • principles of sustainability relevant to material reuse • work planning and logical task sequencing • types, characteristics and limitations of tools, equipment and materials required for propping and bracing prefabricated concrete elements , 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.

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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 erection design documentation, materials, plant, manufacturer specifications, tools and equipment required to achieve the performance evidence.
LINKS Mandatory field	Link to Companion Volume Implementation Guide.

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