



Australian Government

CPCSPS4011 Install precast concrete swimming pools

Release: 1

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Modification History

- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
New unit.

Application

This unit specifies the skills and knowledge required to install precast concrete swimming pools (precast pools). A precast pool must have a total mass not greater than 12,000 kg (delivered weight). Products of a greater mass are not considered a precast pool.

It includes preparing for and installation of filtration, circulation, heating and lighting systems.

This unit reflects the role of those who are responsible for the installation process and the management of excavation and heavy lifting equipment to complete the installation. It applies in a range of contexts:

- private swimming pools
- public swimming pools, including:
 - hotels, motels and apartments.

This unit is suitable for those using specialised knowledge to complete routine and non-routine tasks, and their own judgement to deal with predictable and sometimes unpredictable problems.

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

Pre-requisite Unit

Nil.

Unit Sector

Swimming Pool and Spa Building

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 installation of precast pool. | 1.1 | Access, read and interpret relevant information from plans, specifications, codes and standards. |
| | 1.2 | Interpret and apply work health and safety and environmental requirements. |
| | 1.3 | Identify and confirm with client type and location of filtration and circulation system. |
| | 1.4 | Calculate and order materials and components. |
| | 1.5 | Determine commencement date and schedule delivery of precast pool and required plant and equipment. |
| | 1.6 | Locate existing underground and overhead services prior to commencement. |
| | 1.7 | Determine job priorities and sequence job tasks in consultation with others on site. |
| 2 Prepare to install precast pool. | 2.1 | Select, fit and use personal protective equipment appropriate to activity. |
| | 2.2 | Set out and mark pool position, finish height and excavation depth. |
| | 2.3 | Excavate to set-out depth and side clearance, allowing for backfill. |
| | 2.4 | Select and prepare base in accordance with soil classifications of site. |
| | 2.5 | Confirm installation of circulation pipework to precast pool. |
| | 2.6 | Confirm traffic management requirements for location. |
| 3 Install precast pool and commission ancillary systems. | 3.1 | Implement requirements for managing traffic during precast pool installation. |
| | 3.2 | Communicate with crane service provider to lift, position and set precast pool to the specified level. |
| | 3.3 | Attach ancillary equipment and piping to precast pool. |
| | 3.4 | Fill pool with water and balance water chemistry. |

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| | 3.5 | Commission filtration, circulation, heating and lighting systems. |
| | 3.6 | Clean up the work area in accordance with workplace and environmental requirements. |
| 4 Conduct client handover. | 4.1 | Confirm project completion and supply of inclusions with client. |
| | 4.2 | Demonstrate operation and inform client of settings, adjustments and routine maintenance requirements. |
| | 4.3 | Supply client with precast pool equipment guarantees, warranties and |

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>

Assessment Requirements for CPCSPS4011 Install precast concrete swimming pools

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by installing one precast concrete swimming pool.

Knowledge Evidence

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

- regulations, standards, codes and permits relevant to installation of precast concrete swimming pools:
 - National Code of Practice for Precast Tilt-Up and Concrete Elements in Building Construction
 - Australian Standards
- relevant sections of the National Construction Code (NCC)
- precast pool project plans and specifications
- properties, applications and limitations of precast concrete swimming pool materials and swimming pool products and components
- processes and procedures for:
 - pool excavation
 - types of base preparations – screed and compact base, concrete slab
 - lifting, setting and levelling precast concrete swimming pools
 - connecting filtration and circulation systems
- licensing and competency requirements for installing swimming pool and spa ancillary equipment
- operational and functional features of tools and equipment
- workplace safety:
 - hierarchy of control
 - temporary safety barriers and fences around pools
 - hazardous manual tasks
 - competency requirements for operating pumping equipment
- types, advantages and environmental efficiencies of swimming pool and spa covers

- workplace and environmental requirements relating to waste disposal and clean-up.

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 in a simulated workplace environment.

Candidates must have access to:

- regulations, standards and codes relevant to swimming pools and spas
- relevant sections of the NCC
- project plans, specifications and manufacturer instruction
- workplace safety and environmental requirements.

Links

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