



Australian Government

CPCSPS4004 Install swimming pool and spa circulation systems and components

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 pipework to swimming pool and spa circulation systems and components. It includes installing and connecting pool pipework to pumps, filtration and heating systems.

This unit applies to a range of contexts and reflects the role of those who are responsible for the installation process of pipework to above-ground and in-ground:

- private swimming pools
- public swimming pools, including:
 - hydrotherapy and therapeutic exercise pools
 - wading and receiving pools associated with water slides
 - wave pools.

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.

1	Plan and prepare for	1.1	Access, read and interpret relevant information from
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| the installation of circulation systems and components. | 1.2 | plans, specifications, codes and standards. |
| | 1.2 | Interpret and apply work health and safety and environmental requirements. |
| | 1.3 | Obtain information to identify, locate and protect existing underground services prior to excavation. |
| | 1.4 | Calculate and order pipework, components and materials. |
| | 1.5 | Determine commencement date and schedule delivery of pipework, components and materials. |
| | 1.6 | Determine job priorities and sequence job tasks in consultation with others on site. |
| | 1.7 | Select and check tools and equipment for serviceability. |
| | 1.8 | Select, fit and use personal protective equipment appropriate for the activity. |
| 2 Install pipework for swimming pools and spas. | 2.1 | Confirm position of circulation equipment with relevant person. |
| | 2.2 | Excavate trenches for pipework to specified depth and level. |
| | 2.3 | Install pipework and components to specified fall. |
| | 2.4 | Test pipework for leaks and repair as necessary. |
| | 2.5 | Backfill and compact trenches to comply with relevant Australian Standards. |
| 3 Clean up site. | 3.1 | Clear the work area and reuse, recycle or dispose of materials in accordance with workplace and environmental requirements. |
| | 3.2 | Clean tools and equipment, check for serviceability, report any damage or faults and store and secure. |

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 CPCSPS4004 Install swimming pool and spa circulation systems and components

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by installing pipework and components for a circulation system covering one of the following:

- one swimming pool
- one spa
- one swimming pool and spa.

Installation must include a pool pump and a filtration system.

Knowledge Evidence

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

- regulations, standards and codes relevant to installation of circulation systems for swimming pools and spas
- relevant sections of the National Construction Code (NCC)
- features of swimming pool and spa project plans and specifications
- manufacturer instructions for circulation systems and components
- properties, applications and limitations of swimming pool and spa materials, products and components for circulation systems
- processes, procedures and techniques for:
 - construction of in-ground pools and spas
 - installation of above-ground pools and spas
 - installation and operation of swimming pool and spa circulation equipment
 - connecting filtration, circulation, heating and lighting systems
- licensing and competency requirements for installing swimming pool and spa ancillary equipment
- operational and functional features of tools and equipment
- relevant sections of workplace safety requirements
- workplace safety:
 - hierarchy of control
 - hazardous manual tasks

- falls from heights
- temporary safety barriers and fences around pools
- 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 instructions
- workplace safety and environmental requirements.

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