



Australian Government

CPCSPS4003 Install swimming pool and spa subsoil drainage

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 subsoil drainage to variously shaped in-ground swimming pools and spas. It includes preparing and installing the drainage during excavation.

This reflects the role of those who are responsible for diverting subsoil water away from the swimming pool and spa construction site. It applies to a range of contexts:

- 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 the sub-soil drainage.

1.1 Access, read and interpret relevant information from plans, specifications, codes and standards.

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| | 1.2 | Interpret and apply work health and safety and environmental requirements. |
| | 1.3 | Locate existing underground services and avoid during excavation and construction works. |
| | 1.4 | Identify type, dimensions and area of subsoil drainage. |
| | 1.5 | Calculate and order materials. |
| | 1.6 | Determine commencement date and schedule delivery of material, components and required plant and equipment. |
| | 1.7 | Determine job priorities and sequence job tasks in consultation with others on site. |
| 2 | Prepare for and install subsoil drainage. | |
| | 2.1 | Set out position and depth of drainage. |
| | 2.2 | Select, fit and use personal protective equipment appropriate for the activity. |
| | 2.3 | Conduct a pre-operation check of plant and equipment. |
| | 2.4 | Excavate trench depth and width to set out position. |
| | 2.5 | Install and compact specified drainage material to determined levels. |
| | 2.6 | Install drainage pipework and backfill trenches. |
| 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 CPCSPS4003 Install swimming pool and spa subsoil drainage

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by installing subsoil drainage for two different swimming pool construction projects.

In doing this, the candidate must lay drainage and components to set heights, levels and falls.

Knowledge Evidence

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

- regulations, standards and codes relevant to drainage and construction of swimming pools and spas
- relevant sections of the National Construction Code (NCC)
- features of swimming pool and spa project plans and specifications
- properties, applications and limitations of subsoil drainage materials, products and components:
 - perforated pipes and jointing materials
 - geo-textile fabric
 - granular materials
- processes, procedures and techniques for:
 - subsoil drainage excavation
 - installing various types of drainage materials and products
- effects of excessive water on soil and swimming pools
- operational and functional features of tools and equipment
- workplace procedures and workplace safety:
 - hierarchy of control
 - hazardous manual tasks
 - competency requirements for operating excavation equipment
 - 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 pool subsoil drainage
- relevant sections of the NCC
- project plans, specifications and manufacturer instructions
- workplace safety and environmental requirements.

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