

## **ASSESSMENT GUIDELINES**

### **Unit 12401**

**Construct water features in landscape work**

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Level 4, Credit 6, version 4

# Construct water features in landscape work

Unit standard 12401  
Level 4, Credit 6, version 4

## Level of performance required for this unit standard

This is a level 4 unit standard. At this level trainees are expected to demonstrate the following abilities when completing assessment tasks:

- To work under broad guidance, independently; with complete responsibility for the standards of the outcome achieved.
- To apply technical skills, knowledge, and innovation to complete the task to the specified standard, in a variety of familiar and unfamiliar contexts.
- To analyse and interpret information, and make an informed judgment.

## Workplace assessment:

For guidelines on Workplace Assessment, please refer to the NZHITO Workplace Assessors Manual, and for further information, please contact: NZHITO, PO Box 8638, Christchurch. Ph 03 9644 735, Fax 03 9644 737, Website [www.hortito.org.nz](http://www.hortito.org.nz)

## Special notes:

1. *Workplace procedures* refer to verbal or written instructions to staff on procedures for the worksite and equipment.
2. *Landscape design* covers the development of design solutions for simple, single occupier residential sites.
3. Legislation relevant to this unit standard includes but is not limited to the Health and Safety in Employment Act 1992.
4. The New Zealand Standards applicable to this unit standard are: NZS 3124:1987 *Specification for concrete construction for minor works*, NZS 4210:2001 *Masonry construction: Materials and workmanship*, and NZS 3640:2003 *Chemical preservation of round and sawn timber*, available from <http://www.standards.co.nz>.

**Unit 12401: Construct water features in landscape work  
(Apprentice copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
<p><b>Element 1</b> Construct water features using a range of materials</p>	<p><b>Yes/No</b></p>	<p>Range at least four of – earth, concrete brick and concrete block, rock and stone, sprayed concrete and plaster, timber, pre-cast units (fiberglass, plastic, cement fibre, metal), or flexible liner (PVC or butynol).</p> <ul style="list-style-type: none"> <li>▪ Set out water features at the location and to dimensions shown on site drawings.</li> <li>▪ Complete excavation or movement of earth to create water features to detail shown in the site drawings and specification and according to workplace procedures.</li> <li>▪ Construct water features built in concrete to dimensions shown on site drawings or specification and according with requirements of NZS 3124:1987, and finish to the requirements of the site specifications.</li> <li>▪ Construct water features built in brick and block to dimensions shown on site drawings or specification and according with requirements of NZS 4210:2001, and finish to the requirements of the site specifications.</li> <li>▪ Construct water features built in rock or stone to dimensions shown on site drawings or specification and according with requirements of the site specification and the arrangement of stone or rock is approved by the designer or the designer’s representative.</li> <li>▪ Construct water features built in timber to dimensions shown on site drawings and according with requirements of the site specification in materials which are selected for their durability in water. Range: timber with natural durability in water, timber treated to required standard under NZS 3640:2003, fixings of stainless steel or hot dipped galvanised steel.</li> <li>▪ Ensure sprayed concrete and plaster water features are built to dimensions shown on site drawings or specifications, and construct according to the requirements of the site specification.</li> <li>▪ Incorporate in the structure and apply water proofing treatments to the surface of the feature, according to the site specification and the recommendations of the manufacturer.</li> </ul>
<p><b>Element 2</b> Install water circulation systems</p>	<p><b>Yes/No</b></p>	<ul style="list-style-type: none"> <li>▪ Construct pressure controlled water circulation systems as shown in site drawings, install elements of the system according to site specification and manufacturer’s requirements. Range: pumps, pipework, control systems, spray heads or other specified distribution components.</li> <li>▪ Construct recycling water systems as shown on site drawings, install elements of the system according to site specification and manufacturer’s requirements Range: filters, flow control, system top-up sources, controls, distribution components.</li> <li>▪ Ensure provision is made for overflow and dispersal of surplus water according to the requirements of the site drawings and specification.</li> <li>▪ Trial and adjust installed systems to achieve performance required by the system designer and according to workplace procedures.</li> </ul>

\_\_\_\_\_ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 12401 (version 4)

**Signed (Assessor):** \_\_\_\_\_

WPA Registration Number: \_\_\_\_\_ Date: \_\_\_\_\_

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Please send this page to your NZHITO Regional Manager, who will forward it to National Office to register the credits on your NZQA Record of Learning.

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*(Name of Apprentice)*

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**Signed (Assessor):**

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WPA Registration Number: \_\_\_\_\_

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