

ASSESSMENT GUIDELINES

Unit 992

Install drainage systems used in landscaping

Level 3, Credit 4, version 5

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Unit standard 992
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Level of performance required for this unit standard

This is a level 3 unit standard. At this level trainees are expected to demonstrate the following abilities when completing assessment tasks:

- To work under general supervision, with some independence; with significant responsibility for the standard of the outcome achieved.
- To apply technical skills and knowledge to complete the task to the specified standard, in a familiar context.
- To interpret available information, and use discretion and 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

Special notes:

1. *Workplace procedures* refer to verbal or written instructions to staff on procedures for the worksite and equipment.
2. Legislation relevant to this unit standard includes but is not limited to the Health and Safety in Employment Act 1992 and the Resource Management Act 1991.

**Unit 992: Install drainage systems used in landscaping
(Apprentice copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Define and sketch drainage systems	Yes/No	<ul style="list-style-type: none"> - Define situations where drainage systems are required in landscaping and the terms of the characteristics of those situations. This includes low lying and catchment areas, sub-soil pans, high water tables and high retention soils. - Describe the surface and sub-surface drainage systems in terms of their functions. - Describe the collection points in drainage systems in terms of their function. - Sketch and label cross sections of the drainage system elements to show construction. One example of each is required – surface drains, subsurface drains, collection points.
Element 2 Set out and excavate for drainage systems	Yes/No	<ul style="list-style-type: none"> - Set out the drainage system elements according to drawings and/or site requirements using measuring and leveling equipment. Elements include collection points, drainage runs and discharge points. - Excavate for the drainage elements to line, depth, and grade using hand tools and light mechanical equipment according to workplace procedures.
Element 3 Install drainage systems	Yes/No	<ul style="list-style-type: none"> - Install surface drainage elements to specification and manufacturer's instructions. In one of – concrete channel, preformed concrete or clay units and proprietary plastic units. - Install sub-surface drainage elements to specification and manufacturer's instructions. Elements include but are not limited to – plastic piping, perforated plastic piping, preformed clay units, drainage metal, or filter cloths. - Install collection points to specification and manufacturer's instructions for preformed units. Range: cast in situ or preformed; entry and exit connections, surface drainage, and access covers. - Establish the discharge points and connections meet regulatory requirements. This includes: Local authority requirements, Resource Management Act 1991. - Complete backfill and compaction according to workplace procedures, without damage to drainage elements, and minimising risk of subsidence of fill. Completion includes: design features, special characteristics, documentation. - Leave the site in a condition that enables further work to proceed unimpeded according to workplace procedures.

_____ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 992 (version 5)

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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