

ASSESSMENT GUIDELINES

Unit 22206

Construct landscape and retaining structures.

Level 4, Credit 7, Version 1

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Unit standard 22206

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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, P O 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, Building Act 2004, and the Building (Forms) Regulations 2004.
3. Any work carried out in playground areas must comply with the New Zealand Standard: NZS 5828:2004 *Playground equipment and surfacing*, available from <http://www.standards.co.nz>.

**Unit 22206: Construct landscape and retaining structures.
(Apprentice copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
<p>Element 1 Identify and explain retaining structures from a landscape plan and the requirements for their use. Range: three landscape projects using pre-cast concrete and/or timber.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Identify the pre-cast concrete units available in the region for retaining structures, then define them in terms of their range of applications, and limitations placed on their use by the manufacturer. ▪ Identify timber units available in the region for retaining structures, and define them in terms of their range of applications, and limitations placed on their use by the manufacturer. ▪ Define the characteristics of retaining features constructed with retaining units, in terms of when consent is required under the Building Act 2004. ▪ Define the construction of retaining features using proprietary units, in terms of conditions under which an engineering certificate is required.
<p>Element 2 Build a retaining structure using proprietary timber units.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Calculate from drawings the material requirements for a retaining structure of proprietary timber units, then order in accordance with workplace procedures. Range: units by name, size, and number; backfill by type, grade, and volume; drainage material by type, size, and lineal measure. ▪ Build a retaining structure only using timber units in accordance with workplace procedures, site drawings or specifications, and the manufacturer's requirements for each component of the structure. ▪ Remove surplus material, and leave the site in a condition which enables further work to proceed unimpeded in accordance with workplace procedures.
<p>Element 3 Build retaining structures using proprietary pre-cast concrete units. Range: two features each using a different type of pre-cast concrete unit.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Calculate from drawings the material requirements for retaining structures of proprietary pre-cast concrete units, then order in accordance with workplace procedures. Range: units by name, size, and number; backfill by type, grade, and volume; drainage material by type, size, and lineal measure. ▪ Build retaining structures using proprietary pre-cast concrete in accordance with workplace procedures, site drawings, and the manufacturer's requirements for each component of the structure. ▪ Remove surplus material, and leave the site in a condition which enables further work to proceed unimpeded in accordance with workplace procedures.
<p>Element 4 Order and install proprietary landscape features. Range: two of – fence, timber structure, plastic or fibre-glass feature, concrete garden feature, metal feature.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Order features from details provided in site drawings and specification by brand, size, and number of units required ▪ Install features in accordance with workplace procedures, ensuring that the requirements of site drawings and specifications are met, and the manufacturer's requirements for each element of the installation. Range: including foundations, fixing to foundations, protection of surface finishes, assembly and adjustment. ▪ Remove surplus material, and leave the site in a condition which enables further work to be undertaken unimpeded in accordance with workplace procedures. ▪

<p>Element 5 Use hand and portable power tools in installation of proprietary units.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Select and use hand and portable power tools, in accordance with workplace procedures to achieve a specified outcome without damage to the feature, injury to the operator, or danger to others. Range: tools may include but are not limited to – lines, automatic level, spirit level, measuring rule, measuring tape, cold chisel, hammer, shovel, hack saw, club hammer, handsaw, adjustable spanner, barrow, electrical cords and safety equipment, electric drill, power saw, concrete mixer. ▪ Maintain tools and equipment used in the work, in accordance with workplace procedures. Range: properly adjusted, lubricated, clean, undamaged. ▪ Use devices which define areas of danger when work is accessible to the public, in accordance with workplace procedures. Range: barriers, lights, warning signs.
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_____ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 22206, version 1

Signed (Assessor): _____

WPA Registration Number: _____ Date: _____

**Unit 22206: Construct landscape and retaining structures.
(Assessor copy)**

ELEMENT	Competent	Range of evidence an assessor should consider
<p>Element 1 Identify and explain retaining structures from a landscape plan and the requirements for their use. Range: three landscape projects using pre-cast concrete and/or timber.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Identify the pre-cast concrete units available in the region for retaining structures, then define them in terms of their range of applications, and limitations placed on their use by the manufacturer. ▪ Identify timber units available in the region for retaining structures, and define them in terms of their range of applications, and limitations placed on their use by the manufacturer. ▪ Define the characteristics of retaining features constructed with retaining units, in terms of when consent is required under the Building Act 2004. ▪ Define the construction of retaining features using proprietary units, in terms of conditions under which an engineering certificate is required.
<p>Element 2 Build a retaining structure using proprietary timber units.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Calculate from drawings the material requirements for a retaining structure of proprietary timber units, then order in accordance with workplace procedures. Range: units by name, size, and number; backfill by type, grade, and volume; drainage material by type, size, and lineal measure. ▪ Build a retaining structure only using timber units in accordance with workplace procedures, site drawings or specifications, and the manufacturer's requirements for each component of the structure. ▪ Remove surplus material, and leave the site in a condition which enables further work to proceed unimpeded in accordance with workplace procedures.
<p>Element 3 Build retaining structures using proprietary pre-cast concrete units. Range: two features each using a different type of pre-cast concrete unit.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Calculate from drawings the material requirements for retaining structures of proprietary pre-cast concrete units, then order in accordance with workplace procedures. Range: units by name, size, and number; backfill by type, grade, and volume; drainage material by type, size, and lineal measure. ▪ Build retaining structures using proprietary pre-cast concrete in accordance with workplace procedures, site drawings, and the manufacturer's requirements for each component of the structure. ▪ Remove surplus material, and leave the site in a condition which enables further work to proceed unimpeded in accordance with workplace procedures.
<p>Element 4 Order and install proprietary landscape features. Range: two of – fence, timber structure, plastic or fibre-glass feature, concrete garden feature, metal feature.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Order features from details provided in site drawings and specification by brand, size, and number of units required ▪ Install features in accordance with workplace procedures, ensuring that the requirements of site drawings and specifications are met, and the manufacturer's requirements for each element of the installation. Range: including foundations, fixing to foundations, protection of surface finishes, assembly and adjustment. ▪ Remove surplus material, and leave the site in a condition which enables further work to be undertaken unimpeded in accordance with workplace procedures. ▪

<p>Element 5 Use hand and portable power tools in installation of proprietary units.</p>	<p>Yes/No</p>	<ul style="list-style-type: none"> ▪ Select and use hand and portable power tools, in accordance with workplace procedures to achieve a specified outcome without damage to the feature, injury to the operator, or danger to others. Range: tools may include but are not limited to – lines, automatic level, spirit level, measuring rule, measuring tape, cold chisel, hammer, shovel, hack saw, club hammer, handsaw, adjustable spanner, barrow, electrical cords and safety equipment, electric drill, power saw, concrete mixer. ▪ Maintain tools and equipment used in the work, in accordance with workplace procedures. Range: properly adjusted, lubricated, clean, undamaged. ▪ Use devices which define areas of danger when work is accessible to the public, in accordance with workplace procedures. Range: barriers, lights, warning signs.
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(Name of Apprentice)

is Competent in Unit Standard 22206. (version 1)

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