

# **ASSESSMENT GUIDELINES**

## **Unit 12489**

Identify design applications and requirements of lighting used in landscape work.

---

Level 4, Credit 5, version 4

# Identify design applications and requirements of lighting used in landscape work

Unit standard 12489

Level 4, Credit 5, 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 context.
- 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. *Landscape design* covers the development of design solutions for simple, single occupier residential sites.
2. *Design enterprise standards and/or procedures* may include but are not limited to quality assurance, documentation, security, communication, health and safety, ethics, interpersonal behaviour and design practice image. An acceptable standard would be comparable to ISO9000 certified enterprises and /or organisations, and those standards set by an incorporated professional or trade body such as Landscape Industries Association of New Zealand or New Zealand Institute of Landscape Architects.
3. Legislation relevant to the client's needs and requirements may include but is not limited to the Health and Safety in Employment Act 1992, Building Act 2004, Consumer Guarantees Act 1993, Fair Trading Act 1986, Privacy Act 1993, and the Resource Management Act 1991.
4. Design work requiring certification will need to be undertaken by a registered engineer.

## Unit 12488: Identify the design applications and requirements of lighting used in landscape work (Apprentice copy)

ELEMENT	Competent	Range of evidence an assessor should consider
<p><b>Element 1</b> Identify the design implications for use of lighting in landscape work.</p>	<p><b>Yes/No</b></p>	<ul style="list-style-type: none"> <li>▪ Describe lighting applications used in landscape work in terms of their functions. Range: safety, general illumination, specialist lighting.</li> <li>▪ Describe the controls placed on the use of lighting in landscape work in terms of their design implications. Range: regulatory controls, supply or distribution authority requirements, territorial authority requirements.</li> <li>▪ Describe the sources of information on lighting and lighting design in terms of the type of information provided. Range: manufacturer's and/or creator's promotional material, displays and shows, design resource catalogues and related publications, existing installations.</li> </ul>
<p><b>Element 2</b> Identify the characteristics and design requirements of lighting systems used in landscape work.</p>	<p><b>Yes/No</b></p>	<ul style="list-style-type: none"> <li>▪ Describe the factors to be considered in selection of lighting systems in landscape work. Range: power source and related approvals, desired illumination result, reticulation, control, operational requirements and costs.</li> <li>▪ List the factors governing design of lighting systems and determine the sources of design information for each factor. Range: system types, type and coverage of illumination, installation specifications, reticulation and control methods, operational requirements.</li> <li>▪ Describe the installation requirements for at least two landscape lighting systems in terms of their implications for design and project implementation. Range: documentation, specialist installers, site supervision.</li> </ul>
<p><b>Element 3</b> Document examples of applications of lighting used in landscape work.</p>	<p><b>Yes/No</b></p>	<ul style="list-style-type: none"> <li>▪ Ensure the examples selected for documentation show design applications that have been recognised by landscape trade and/or professional organizations as representative of standards they support.</li> <li>▪ Ensure the procedures adopted and standards achieved, in documentation of design application examples comply with design enterprise requirements.</li> <li>▪ Ensure documentation demonstrates understanding, and application, of lighting used in a landscape project.</li> </ul>

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

is **Competent / Not yet competent** in Unit Standard 12489 (version 4)

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

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

**Unit 12488: Identify the design applications and requirements of lighting used in landscape work (Assessor copy)**

<b>ELEMENT</b>	<b>Competent</b>	<b>Range of evidence an assessor should consider</b>
<p><b>Element 1</b> Identify the design implications for use of lighting in landscape work.</p>	<p><b>Yes/No</b></p>	<ul style="list-style-type: none"> <li>▪ Describe lighting applications used in landscape work in terms of their functions. Range: safety, general illumination, specialist lighting.</li> <li>▪ Describe the controls placed on the use of lighting in landscape work in terms of their design implications. Range: regulatory controls, supply or distribution authority requirements, territorial authority requirements.</li> <li>▪ Describe the sources of information on lighting and lighting design in terms of the type of information provided. Range: manufacturer’s and/or creator’s promotional material, displays and shows, design resource catalogues and related publications, existing installations.</li> </ul>
<p><b>Element 2</b> Identify the characteristics and design requirements of lighting systems used in landscape work.</p>	<p><b>Yes/No</b></p>	<ul style="list-style-type: none"> <li>▪ Describe the factors to be considered in selection of lighting systems in landscape work. Range: power source and related approvals, desired illumination result, reticulation, control, operational requirements and costs.</li> <li>▪ List the factors governing design of lighting systems and determine the sources of design information for each factor. Range: system types, type and coverage of illumination, installation specifications, reticulation and control methods, operational requirements.</li> <li>▪ Describe the installation requirements for at least two landscape lighting systems in terms of their implications for design and project implementation. Range: documentation, specialist installers, site supervision.</li> </ul>
<p><b>Element 3</b> Document examples of applications of lighting used in landscape work.</p>	<p><b>Yes/No</b></p>	<ul style="list-style-type: none"> <li>▪ Ensure the examples selected for documentation show design applications that have been recognised by landscape trade and/or professional organizations as representative of standards they support.</li> <li>▪ Ensure the procedures adopted and standards achieved, in documentation of design application examples comply with design enterprise requirements.</li> <li>▪ Ensure documentation demonstrates understanding, and application, of lighting used in a landscape project.</li> </ul>

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

is **Competent / Not yet competent** in Unit Standard 12489 (version 4)

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

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

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.

## **Unit 12489: Identify design applications and requirements of lighting used in landscape work.**

---

*(Name of Apprentice)*

**is Competent in Unit Standard 12489** (version 4)

**Signed (Assessor):**

---

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

Date: \_\_\_\_\_