

ASSESSMENT GUIDELINES

Unit 10948

Demonstrate knowledge of ley cropping in forest nurseries

Level 3, Credit 4, version 3

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Unit standard 10948

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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. Reference: Competence in this unit standard requires knowledge of the *Rejuvenation of Soil Structure*, Knight, P. J. 1981: The maintenance of productivity in forest nurseries. Pp 48- 69 in Chavasse, C. G. R. (Ed.) "Forest nursery and Establishment Practice in New Zealand", *Forest Research Institute Symposium No 22*.
2. Legislation relevant to this unit standard includes but is not limited to the: Health and Safety in Employment Act 1992, and its subsequent amendments.

Unit 10948: Demonstrate knowledge of ley cropping in forest nurseries (Apprentice copy)

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Demonstrate knowledge of ley cropping principles in forest nurseries.	Yes/No	<ul style="list-style-type: none"> ▪ Identify seed mix components in relation to their attributes as soil structure improvers. Range: perennial rye grass, white clover. ▪ Explain organic matter cycling with reference to its effect on soil physical conditions. ▪ List ley crop and tree crop rotation lengths and the ratios between them. Identify the influence of these factors on soil physical conditions.
Element 2 Demonstrate knowledge of ley crop establishment.	Yes/No	<ul style="list-style-type: none"> ▪ Apply base fertilisers according to soil test results. ▪ Make up seed mixes using strains of pasture species of proven local performance. Range: perennial rye grass, short rotation ryegrass, white clover, other pasture grasses. ▪ Ensure sowing rates are those used in local farming practice. ▪ Establish ley crop using local agricultural pasture establishment practices.
Element 3 Demonstrate knowledge of ley crop management.	Yes/No	<ul style="list-style-type: none"> ▪ Monitor ley crop vigour to determine mowing frequency. ▪ Monitor ley crop development to determine the need for fertiliser applications. ▪ Monitor soil moisture levels to determine the need for irrigation.
Element 4 Demonstrate knowledge of ley crop termination.	Yes/No	<ul style="list-style-type: none"> ▪ Select herbicides that effect a complete kill of the ley crop. Range: grass species, clover, weed species. ▪ Apply agrichemicals according to the manufacturer's recommendations and safety precautions. ▪ Utilise cultivation practices that ensure the complete incorporation of ley crop residue.

_____ (Name of Apprentice)

is **Competent** / **Not yet competent** in Unit Standard 10948 (version 3)

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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