

ASSESSMENT GUIDELINES

Unit 830

Train and prune fruit trees

Level 4, Credit 5, version 5

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Unit standard 830

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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, 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.
- 3 Equipment may include but is not limited to electronic, hydraulic, pneumatic and hand secateurs, pruning saws, sharpening stone, file, scabbard or pouch, loppers, air compressors.

Unit 830: Train and prune fruit trees (Apprentice copy)

ELEMENT	Competent	Range of evidence an assessor should consider
Element 1 Identify the main fruit tree training systems and tree parts	Yes/No	<ul style="list-style-type: none"> • Identify the main forms of fruit tree training systems. These may include axis, single leader, vase shaped, Tatura trellis, Lincoln canopy, Ebro-espalier, A or Y frame. • Identify limbs with a strong crotch angle. • Identify leaders, fruit arms, and laterals and distinguish the differences between vegetative and fruit buds. • Identify an apical bud and explain the effects of apical dominance.
Element 2 Train and prune trees between newly planted and three years old	Yes/No	<ul style="list-style-type: none"> • Select materials, tools and equipment appropriate to the task being undertaken. • Use training aids to train shoots into the position required by the training system. Define structural parts and maintain apical dominance. Training aids may include string, wires, plastic ties. • Remove dead, diseased or pest infested wood according to workplace procedures. • Remove branches that have an unsuitable crotch angle, are not wanted for framework development, nor temporary fruiting wood. • Monitor training aids for effectiveness, make adjustments as necessary and make sure they are removed before they damage the bark of the tree.
Element 3 Prune a mature tree according to a training system	Yes/No	<ul style="list-style-type: none"> • Select materials, tools and equipment appropriate to the task being undertaken. • Distinguish between fruitful and unfruitful wood, and remove unfruitful wood according to target crop loading. • Prune trees to maximise fruit quality and quantity of the desired size range. Pruning carried out to enhance light penetration, spray penetration and coverage, worker access, and crop load targets. • Remove diseased, damaged, or pest infested wood according to workplace procedures. • Recognise, if relevant, biennial bearing cycles, and undertake remedial pruning according to target crop loading. • Undertake hygiene and other disease prevention measures, and treat (or not) large cuts according to workplace procedures. • Remove large limbs causing minimal damage to the remaining tree parts. • Summer prune trees as required by the crop type and cultivar. Summer pruning enhances fruit colour, maturation, and reduces tree vigour.
Element 4 Dispose of prunings	Yes/No	<ul style="list-style-type: none"> • Identify the management options for the disposal of prunings, that comply with local authority requirements and workplace procedures. • Remove prunings from the orchard and dispose of them according to workplace procedures, or mulch them on site.

_____ (Name of Apprentice)

is **Competent / Not yet competent** in Unit Standard 830 (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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