

Maintain hand tools and service small engines used in horticulture

Level 2

Credits 5

Purpose This unit standard is for people working, or intending to work, in any kind of horticulture. People credited with this unit standard are able to: identify the range of tools and equipment used in horticulture; sharpen three hand tools using files, oilstones or grindstones, and electric bench grinders; and check and service two stroke and four stroke small engines used in horticulture.

Subfield Horticulture

Domain Production Horticulture

Status Registered

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Entry information Open.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) New Zealand Horticulture Industry Training Organisation

Accreditation and Moderation Action Plan (AMAP) reference 0032

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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.

Elements and performance criteria

Element 1

Identify the range of tools and equipment used in horticulture.

Range 20 items of common horticulture tools and equipment.

Performance criteria

1.1 A range of tools and equipment used in horticulture is identified by name, primary function, and safety requirements.

1.2 The use of common horticulture safety equipment is demonstrated to show that the user is fully protected from, and aware of, the hazards.

Range includes eye protection, hearing protection, dust exclusion, an electric safety device.

Element 2

Sharpen three hand tools using files, oilstones or grindstones, and electric bench grinders.

Range may include but is not limited to – narrow blades, wide blades, curved blades, metal attachments.

Performance criteria

2.1 The sharpness of the cutting edge is assessed in terms of the need for improvement.

2.2 Sharpening and safety equipment is selected and used in accordance with manufacturer's instructions.

2.3 The cutting edge is reconditioned in a safe manner in accordance with manufacturer's recommendations and workplace procedures.

2.4 A variety of different types of hand tool blades are sharpened.

Element 3

Check and service two stroke and four stroke small engines used in horticulture.

Range may include but is not limited to – lawnmower, weed eater, hedge trimmer, compactor.

Performance criteria

3.1 Equipment use and maintenance actions are recorded in logbook or equivalent recording system in accordance with workplace procedures.

- 3.2 Engine fuel and oil requirements are determined for specific engines.
Range fuel and oil level, fuel and/or oil type.
- 3.3 Two and four-stroke engines are refuelled according to the manufacturer's recommendations.
- 3.4 Air filters and spark plugs are cleaned, checked, and adjusted according to the manufacturer's recommendations.
- 3.5 Engine oil is changed according to the manufacturer's recommendation.
- 3.6 Hazards are identified and minimised, isolated or removed if necessary, for each small engine.

Please note

Providers must be accredited by the Qualifications Authority, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

Comments on this unit standard

Please contact the New Zealand Horticulture Industry Training Organisation via their website www.hortito.org.nz if you wish to suggest changes to the content of this unit standard.