

## Freehand grind and profile knives for joinery

**Level** 4

**Credits** 5

**Purpose** People credited with this unit standard are able to prepare for freehand grinding and profiling, and set up and operate freehand grinding machine, for joinery.

**Subfield** Joinery

**Domain** Joinery Machining

**Status** Registered

**Status date** 23 January 2009

**Date version published** 23 January 2009

**Planned review date** 31 December 2013

**Entry information** Open.

**Accreditation** Evaluation of documentation and visit by NZQA and industry.

**Standard setting body (SSB)** Joinery Industry Training Organisation

**Accreditation and Moderation Action Plan (AMAP) reference** 0073

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

---

### Special notes

- 1 All workplace practices must comply with current legislation, codes of practice, and documented site safety procedures for personal, product, and worksite safety.
- 2 Legislation and regulations relevant to this unit standard include but are not limited to – Health and Safety in Employment Act 1992; Health and Safety in Employment Regulations 1995.

---

## Elements and performance criteria

### Element 1

Prepare for freehand grinding and profiling for joinery.

#### Performance criteria

- 1.1 Job specifications are interpreted and verified with supervisor in accordance with workplace practice.
- 1.2 Safety equipment is in accordance with manufacturer's specifications and legislation.  
  
Range safety equipment includes but is not limited to – goggles, masks, ear protection, gloves, footwear, apron.
- 1.3 Safety procedures are adhered to in accordance with legislation and workplace practice.
- 1.4 Abrasive wheel selected is in accordance with job specifications.
- 1.5 Defective wheels are identified, and are rectified or disposed of in accordance with workplace practice and legislation.
- 1.6 Machine settings are in accordance with job specifications and workplace practice.  
  
Range settings include but are not limited to – tool rest, operating speed.
- 1.7 Cutter steel selection is in accordance with manufacturer's specifications, safety, type of material used, and finish requirements.
- 1.8 Cutter profile design is prepared, and freehand grinding carried out in accordance with job specifications.

### Element 2

Set up and operate freehand grinding machine for joinery.

#### Performance criteria

- 2.1 Wheel is dressed and shaped in accordance with job specifications.  
  
Range shaping tool includes but is not limited to – Huntingdon or diamond dresser.
- 2.2 Cutter is rough ground to shape in accordance with job specifications.

- 2.3 Blade grinding is in accordance with job specifications.
- Range factors critical to determining quality of cutter finish include but are not limited to – cutting angle, clearance angle, burning.
- 2.4 Sharpness of blade is ensured through honing in accordance with job specifications.
- 2.5 Machine and working areas are clean, clear, and safe in accordance with workplace practice and legislation.
- 2.6 Safety procedures are adhered to in accordance with legislation and workplace practice.

---

**Please note**

Providers must be accredited by NZQA, 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 NZQA 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 Joinery Industry Training Organisation [ceo@jito.org.nz](mailto:ceo@jito.org.nz) if you wish to suggest changes to the content of this unit standard.