

Title	Demonstrate knowledge of plastics materials joining techniques		
Level	2	Credits	2

Purpose	People credited with this unit standard are able to demonstrate knowledge of plastics materials joining techniques.
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Classification	Plastics Processing Technology > Plastics Fabrication
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Available grade	Achieved
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Entry information	
Recommended skills and knowledge	Unit 23128, <i>Demonstrate basic knowledge of plastics production processes and materials</i> ; Unit 23129, <i>Process and use plastics materials</i> ; and Unit 23130, <i>Classify and name plastics materials</i> .

Explanatory notes

- 1 The following joining techniques apply to this unit standard:
Welding includes the following techniques:
 hot-air and hot-gas, extrusion, butt, socket, electro-fusion, friction (including ultrasonic), high frequency, heat (including impulse), laser.
Adhesion includes techniques using:
 solvents, adhesives.
Mechanical includes techniques using:
 metal and plastic fastenings (including bolts, rivets, screws, spring fasteners), snap joints, crimped joints, press fitted joints, compression seals.

- 2 Definition
Plastics materials are thermoplastics (including elastomers) and thermosetting materials.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of plastics materials joining techniques.

Evidence requirements

1.1 Types of plastics materials welding joints are identified.

Range plastics welding joints – vee-butt, overlap, fillet, tape.

1.2 The principles of plastics materials joining techniques are described, and common examples of the equipment, tooling, and joining materials used for each technique are identified.

Range evidence is required for three welding techniques, one adhesion technique, and two mechanical techniques.

1.3 Common plastics materials joined by joining techniques are identified.

Range evidence is required of a plastics material for three welding techniques, one adhesion technique, and two mechanical techniques.

1.4 Common rigid or flexible end-use applications which use plastics materials joining techniques are identified.

Range evidence is required of end-use applications for three welding techniques, one adhesion technique, and two mechanical techniques.

Planned review date	31 December 2013
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 April 2005	N/A
Rollover and Revision	2	18 March 2011	N/A

Accreditation and Moderation Action Plan (AMAP) reference	0134
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This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Please note

Providers must be granted consent to assess against standards (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 granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Consent 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 Competenz info@competenz.org.nz. if you wish to suggest changes to the content of this unit standard.