

<b>Title</b>	<b>Demonstrate knowledge of fabric welding in the industrial textile fabrication industry</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>4</b>

<b>Purpose</b>	People credited with this unit standard are able to demonstrate knowledge of fabric welding in the industrial textile fabrication industry.
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<b>Classification</b>	Industrial Textile Fabrication > Industrial Textile Fabrication Core Skills
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturer's information, company requirements, industry guidelines and legislative requirements. This includes the knowledge and use of suitable tools and equipment.
- 2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the Health and Safety at Work Act 2015; and any subsequent amendments and replacements.
- 3 Definitions  
*Company requirements* refers to instructions to staff on policy and procedures that are available in the workplace. These requirements may include – company policies and procedures, work instructions, product quality specifications and legislative requirements.  
*Industry guidelines* refers to those practices and procedures commonly used as standard procedures to produce items of acceptable merchantable quality in the industrial textile fabrication industry such as related textbook descriptors.  
*Manufacturer's information* may include – technical information for a machine, or product detailing operation; installation and servicing procedures; manufacturer instructions; technical terms and descriptions; and detailed illustrations.

### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of fabric welding in the industrial textile fabrication industry.

Range types of welding processes – high frequency (HF), hot air, hot wedge, ultrasonic.

**Performance criteria**

1.1 Types of welding processes and the features of each process are described.

1.2 Hazards associated with welding processes are described.

Range radiation exposure, radiation burns, burns, fumes, electrocution.

1.3 Weldable fabrics used in the workplace are identified.

Range polyvinyl chloride (PVC), polyethylene (PE), polyfabrics, synthetics, vinyl.

1.4 Adjustments and settings for each process are described.

Range power-pressure time, temperature, dwell time, speed of welding, size of weld, air flow, material thickness, attachments.

1.5 Characteristics of good welding are described.

Range strength, penetration, even and flat, melt line, appearance.

1.6 Barrier material use and characteristics are described for HF welding.

1.7 Safety precautions when working with welding machines are described.

1.8 Common welding faults are described.

Range lack of penetration, distortion, oozing, beading blow, delamination, tape alignment, surface flash, consistency of welded joint.

1.9 Methods of testing welds are described.

Range peel, shear, pressure, tensile strength, waterproof.

<b>Replacement information</b>	<p>This unit standard, unit standard 23500, unit standard 23501, and unit standard 23502 replaced unit standard 1322.</p> <p>This unit standard, unit standard 23500, unit standard 23501, and unit standard 23502 were replaced by skill standard 40027.</p>
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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	26 March 2007	31 December 2020
Rollover	2	27 January 2015	31 December 2020
Review	3	28 February 2019	31 December 2026
Review	4	30 May 2024	31 December 2026

**Consent and Moderation Requirements (CMR) reference**

0014

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