

<b>Title</b>	<b>Carry out safety checks of lifting equipment components, and certify for use</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>30</b>

<b>Purpose</b>	<p>People credited with this unit standard are able to: identify, and inspect, lifting equipment components for wear and damage; and record information from visual inspection, and certify lifting equipment components for use.</p> <p>This unit standard is for people involved with inspection and certification of lifting equipment.</p>
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<b>Classification</b>	Lifting Equipment > Rigging
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to the Health and Safety in Employment Act 1992.
- 2 Definition  
Lifting equipment components – slings, shackles, fittings, pulley blocks.
- 3 Assessment  
Evidence is required for:  
slings – chain, wire rope, web, round;  
shackles – standard, high capacity;  
fittings – eyebolts, rigging screws, turnbuckles;  
pulley blocks – single sheave, multiple sheave.
- 4 Manufacturer's specifications are based on internationally recognised standards which include but are not limited to –

#### Web Slings

AS 1353: 1997, *Flat synthetic-webbing slings – Product specification*, Part 1.

BS EN 1492: 2004, *Textile slings – Safety – Lifting slings for general service made from certain natural and man-made fibre ropes*, Part 1.

BS EN 1492: 2004, *Textile slings – Safety – Lifting slings for general service made from natural and man-made fibre ropes*, Part 4.

#### Round Slings

AS 4497: 1997, *Round slings – Synthetic fibre – Product specifications*, Part 1.

BS EN 1492: 2004, *Textile slings – Safety – Lifting slings for general service made from natural and man-made fibre ropes*, Part 2.

### Chain Slings

AS 2321.2001 *Short-link chain for lifting purposes.*

AS 3776: 2006, *Lifting components for Grade T chain slings.*

BS EN 818: 1996-2000, *Short link chain for lifting purposes – Safety, Parts 1-6.*

BS EN 1677: 2000, *Components for slings – Safety, Parts 1 and 2.*

ISO 4778:1981, *Chain slings of welded construction – Grades M(4), S(6), and T(8).*

ISO 7593: 1986, *Chain slings assembled by methods other than welding – Grade T(8).*

JIS B 8816: 2004, *Chain slings for lifting purposes.*

### Shackles

AS 2741: 2002, *Shackles.*

Federal Specifications RC-C-271D: 1990, *Chains and attachments, welded and weldless.*

### Eyebolts and Nuts

BS 4278: 1984, *Specifications for eyebolts for lifting purposes.*

DIN 580: 2003-08, *Eye Bolts.*

DIN 582: 2003-08, *Eye Nuts.*

### Rigging Screws and Turnbuckles

BS 4429: 1987, *Specification for rigging screws and turnbuckles for general engineering, lifting purposes, and pipe hanger applications.*

### Pulley Blocks

BS MA 47: 1977, *Code of Practice for ship's cargo blocks.*

### Wire Rope Slings

BS EN 13414: 2003, *Steel wire rope slings – Safety, Parts 1-3.*

Australian Standards (AS) are available from <http://www.standards.com.au/>.

Japanese Standards (JIS) are available from <http://www.webstore.jisa.or.jp/>.

ISO Standards are available from <http://www.iso.org/>.

CEN/EN Standards are available from <http://www.cenorm.be/>.

British Standards (BS) are available from <http://www.bsonline.bsi-global.com/>.

German Standards (DIN) are available from <http://www2.din.de/index.php?lang=en>.

- 5 Lifting Equipment Engineers of New Zealand (LEENZ) requirements and *Code of Practice for the Safe Use of Lifting Equipment* (referred to as the code of practice), are available from LEENZ Inc, PO Box 13015, Onehunga, Auckland.
- 6 Reference  
*OSH Approved Code of Practice for Load-Lifting Rigging*, available from the Occupational Safety and Health Service of the Department of Labour website, <http://www.osh.dol.govt.nz>.

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## Outcomes and performance criteria

### Outcome 1

Identify, and inspect, lifting equipment components for wear and damage.

#### Performance criteria

- 1.1 Lifting equipment components are identified by grade and manufacturer.
- 1.2 Lifting equipment components which cannot be identified are rejected in accordance with LEENZ requirements.
- 1.3 Lifting equipment components are inspected for correct size for the job, excessive wear, and damage in accordance with manufacturer's specifications and LEENZ requirements.
- 1.4 Lifting equipment components which are outside manufacturer's wear tolerances, or are damaged, are replaced in accordance with manufacturer's specifications.

### Outcome 2

Record information from visual inspection, and certify lifting equipment components for use.

#### Performance criteria

- 2.1 Information from visual inspection is recorded in accordance with LEENZ requirements.
- 2.2 Certification of components is carried out in accordance with LEENZ requirements and manufacturer's specifications.

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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	23 February 2007	31 December 2024
Review	2	27 October 2022	31 December 2024

<b>Consent and Moderation Requirements (CMR) reference</b>	0025
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.