Carry out safety checks of lifting equipment components, and certify for use

Level	**5**
Credits	**30**

Purpose 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.

This unit standard is for people involved with inspection and certification of lifting equipment.

Subfield	Lifting Equipment
Domain	Rigging
Status	Registered
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Entry information	Open.
Accreditation	Evaluation of documentation and visit by NZQA and industry.
Standard setting body (SSB)	The Skills Organisation

Accreditation and Moderation Action Plan (AMAP) reference 0025

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

Special notes

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.jsa.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.

Elements and performance criteria

Element 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.

Element 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.

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 Skills Organisation at reviewcomments@skills.org.nz if you wish to suggest changes to the content of this unit standard.