

<b>Title</b>	<b>Diagnose and rectify mechanical faults in mobile cranes or track crawler cranes</b>		
<b>Level</b>	<b>5</b>	<b>Credits</b>	<b>15</b>

<b>Purpose</b>	People credited with this unit standard are able to diagnose and rectify mechanical faults, and test and document repairs, to mobile cranes or track crawler cranes.
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<b>Classification</b>	Cranes > Crane Maintenance and Servicing
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<b>Available grade</b>	Achieved
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<b>Entry information</b>	
<b>Critical health and safety prerequisites</b>	Unit 3804, <i>Carry out periodic maintenance checks and servicing for mobile cranes or track crawler cranes</i> , or demonstrate equivalent knowledge and skills.

### Explanatory notes

- 1 Definition  
The definition of a *crane* is as given in the Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999.
- 2 Assessment  
Assessment must be carried out in a crane workplace or equivalent.
- 3 All tasks are to be carried out in accordance with the equipment manufacturers' requirements and company standards and procedures based on industry requirements in:
  - a company quality management systems;
  - b health and safety requirements and guidelines consistent with the Health and Safety in Employment Act 1992 (HSE Act);
  - c equipment manufacturers' operating instructions;
  - d government and local government legislation, regulations, and bylaws;
  - e *Crane Safety Manual*, published by the Crane Association of New Zealand (Inc), PO Box 25 156, Panama Street, Wellington 6146.
- 4 HSE Act Codes of Practice are available from the Occupational Safety and Health Service of the Department of Labour website, <http://www.osh.dol.govt.nz>.
- 5 This unit standard is aimed at giving candidates sufficient skills to understand the principles of mobile cranes mechanical engineering, the defects that are likely to develop, and the corrective action which needs to be taken.

- 6 This unit standard is intended to complement the skills of candidates who have mechanical and/or electrical engineering backgrounds.

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## Outcomes and evidence requirements

### Outcome 1

Diagnose and rectify mechanical faults in mobile cranes or track crawler cranes.

Range evidence is required for at least two faults for each location.

### Evidence requirements

- 1.1 Faults in the crane carrier are diagnosed and rectified in accordance with equipment manufacturers' recommendations and company standards.
- 1.2 Faults in the upper works are diagnosed and rectified in accordance with equipment manufacturers' recommendations and company standards.

### Outcome 2

Test and document repairs to mobile cranes or track crawler cranes.

### Evidence requirements

- 2.1 Repairs are tested and documentation completed in accordance with equipment manufacturers' recommendations and company standards.

Range may include but is not limited to – log books, records, job sheets, crane equipment inventories, purchase orders and/or maintenance requests.

<b>Planned review date</b>	31 December 2016
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	9 April 1995	30 June 2013
Review	2	22 May 1997	30 June 2013
Review	3	27 March 2000	30 June 2013
Review	4	20 June 2006	30 June 2013
Review	5	15 March 2012	N/A

<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>.

**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, 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.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR 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.

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**Comments on this unit standard**

Please contact The Skills Organisation at [reviewcomments@skills.org.nz](mailto:reviewcomments@skills.org.nz) if you wish to suggest changes to the content of this unit standard.