

Title	Prepare and use a crane with crane mounted drill table for piling and foundation operations		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to: prepare a crane with a crane mounted drill table for piling and foundation operations; carry out piling and foundation operations using a crane mounted drill table; de-rig the crane mounted drill table, re-rig the crane, functionally test crane for routine crane use, and complete documentation; and carry out daily and weekly safety and maintenance checks of the crane and crane mounted drill table.
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Classification	Cranes > Crane Operation
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Available grade	Achieved
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Explanatory notes

- 1 Definitions
Crane is as given in the Health and Safety in Employment (Pressure Equipment, Cranes, and Passenger Ropeways) Regulations 1999.
Crane and crane mounted drill table manufacturer's requirements – crane and crane mounted drill table manufacturer's operating, safety, and maintenance instructions.
Crane mounted drill table – a drilling rig mounted to the front of a crane. It is secured in place with either pins or bolts, with a secondary support system either from the top of the jib with pendant ropes or with two hydraulic rams connected directly to the table and the crane.

- 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;
 - f *Approved Code of Practice for Cranes*, published by the Department of Labour, available at <http://www.dol.govt.nz>.

- 4 HSE Act Codes of Practice are available from the Department of Labour website, <http://www.osh.dol.govt.nz>.

Outcomes and evidence requirements

Outcome 1

Prepare a crane with a crane mounted drill table for piling and foundation operations.

Evidence requirements

- 1.1 Crane is confirmed as suitable for piling and foundation operations in accordance with the crane manufacturer's requirements and company procedures.
- Range boom length, crane capacity, line pull, rope selection.
- 1.2 Equipment that is provided is described in terms of its functions, and suitability for the work that will be carried out.
- 1.3 Crane is rigged for piling and foundation operations including fitting of the table in accordance with crane and crane mounted drill table manufacturer's requirements and company procedures.
- 1.4 Siting of the crane and the sequence of procedures are planned in consultation with authorised personnel in accordance with company procedures.
- Range authorised personnel may include but are not limited to – client representatives, on-site supervisor, engineer.
- 1.5 Site safety precautions are taken and hazard control measures implemented prior to commencement of piling activities in accordance with company procedures.
- Range environment, people, equipment, services, personal protective equipment.

Outcome 2

Carry out piling and foundation operations using a crane mounted drill table.

Evidence requirements

- 2.1 Potential hazards during piling and foundation operations are identified, and control strategies are described in accordance with company procedures and engineer's site recommendations.
- Range stability of crane, recoil, stability of crane and boom, failure of pile head or fatigue of pile, failure of ropes or attachments, environmental, damage to eyes and ears of personal.

- 2.2 Signals are identified and agreed in accordance with company procedures.
- 2.3 Piling and foundation operations are carried out in accordance with equipment manufacturer's recommendations and company procedures.

Outcome 3

De-rig the crane mounted drill table, re-rig the crane, functionally test the crane for routine crane use, and complete documentation.

Evidence requirements

- 3.1 Crane mounted drill table is de-rigged, and crane is re-rigged for other crane use in accordance with crane manufacturer's operating requirements and company procedures.
- 3.2 Test is conducted in accordance with crane manufacturer's requirements and company procedures, prior to the crane being returned to routine crane activities.
- 3.3 Documentation is completed in accordance with company procedures.
- Range may include but is not limited to – logs, records, job sheets, crane equipment inventories, maintenance requests.

Outcome 4

Carry out daily and weekly safety and maintenance checks of the crane and crane mounted drill table.

Evidence requirements

- 4.1 Daily safety and maintenance checks of crane and crane mounted drill table are carried out in accordance with crane and crane mounted drill table manufacturers' requirements and/or company procedures.
- 4.2 Weekly safety and maintenance checks of crane and crane mounted drill table are carried out in accordance with crane and crane mounted drill table manufacturers' requirements and/or company procedures.

Planned review date	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	23 February 2004	30 June 2013
Review	2	20 May 2008	30 June 2013
Review	3	15 March 2012	N/A

Consent and Moderation Requirements (CMR) reference	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.

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.