

<b>Title</b>	<b>Operate a rope excavator</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>12</b>

<b>Purpose</b>	People credited with this unit standard are able to: carry out pre-start checks on rope excavator; demonstrate knowledge of booms and buckets, and angle and gradient of machine; carry out excavation using a rope excavator; maintain teeth and ropes on rope excavator; and carry out close down procedures on rope excavator.
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<b>Classification</b>	Extractive Industries > Surface Extraction
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<b>Available grade</b>	Achieved
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### Guidance Information

- Performance of the outcomes of this unit standard must comply with the following:  
Health and Safety at Work Act 2015 (HSW);  
Health and Safety at Work (General Risk and Workplace Management) Regulations 2016;  
Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2016;  
Health and Safety at Work (Worker Engagement, Participation, and Representation) Regulations 2016;  
Occupational health and safety guidelines, available at <https://worksafe.govt.nz/>.
- Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.
- Definition  
*Company procedures* mean the documented methods for performing work activities and include health and safety, operational, environmental, and quality management requirements. They may refer to manuals, codes of practice, or policy statements.
- This unit standard is intended for, but is not limited to, workplace assessment.

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### Outcomes and performance criteria

#### Outcome 1

Carry out pre-start checks on rope excavator.

**Performance criteria**

- 1.1 A visual check of the machine is carried out in accordance with company procedures and/or manufacturer's specifications.
- Range lubricants, track security, rope condition, clutches, brake linings, engine checks, bucket connections and pins, visibility, guards, controls, pneumatics.
- 1.2 Checks ensure signage appropriate to the situation is in place in accordance with company procedures and/or manufacturer's specifications.

**Outcome 2**

Demonstrate knowledge of booms and buckets, and angle and gradient of machine.

**Performance criteria**

- 2.1 Boom and bucket are described in terms of their functions and the relationship between each other.
- 2.2 The angle and the gradient of the machine are described in terms of the relationship between each other and the machine's performance and stability.

**Outcome 3**

Carry out excavation using a rope excavator.

**Performance criteria**

- 3.1 Vehicle is positioned in relation to the loading radius in accordance with manufacturer's specifications and company procedures.
- 3.2 Lever action is coordinated to control bucket position in accordance with company procedures and manufacturer's instructions.
- 3.3 Bucket is loaded and hoisted without damage to machine in accordance with company procedures and manufacturer's instructions.
- 3.4 Machine stability is not compromised during excavation operation in accordance with company procedures and manufacturer's instructions.

**Outcome 4**

Maintain teeth and ropes on rope excavator.

**Performance criteria**

- 4.1 Teeth and ropes are changed in accordance with the manufacturer's specifications and company procedures.

- 4.2 Drum clutches and drum brakes are adjusted in accordance with manufacturer's specifications and company procedures.

### Outcome 5

Carry out close-down procedures on rope excavator.

### Performance criteria

- 5.1 Slew lock is engaged in accordance with manufacturer's specifications and company procedures, where applicable.
- 5.2 Bucket is parked in accordance with manufacturer's specifications and company procedures.
- 5.3 Digging lock is engaged both ways in accordance with manufacturer's specifications.

<b>Planned review date</b>	31 December 2022
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### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	24 April 1998	31 December 2019
Revision	2	17 April 2002	31 December 2019
Review	3	27 January 2005	N/A
Rollover and Revision	4	16 July 2010	N/A
Rollover and Revision	5	25 January 2018	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0114
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

### Comments on this unit standard

Please contact MITO New Zealand Incorporated [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.