

<b>Title</b>	<b>Demonstrate knowledge of factors that affect the quality of commercial forestry operations</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This unit standard is intended for people employed in a forestry operation.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of quality control in forestry operations; describe the factors that impact on the efficiency of a forest operation; and describe the effect of personal performance on productivity and product quality.</p>
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<b>Classification</b>	Forestry > Forest Operations
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard must be assessed against on-job.
- 2 The quality of an operation is assessed on factors such as overall efficiency, financial efficiency, waste minimisation, time management, resource management, output quality, level of re-work required, safety record, and teamwork demonstrated.
- 3 Definitions  
*Forestry operations* include forest establishment, silviculture, harvesting, forest inventory, and forest and crew management.  
*Job prescription* refers to any written instructions for the operation and may include maps, harvest plans or cutting plans.  
*Worksite procedures* refer to documented procedures used by the organisation carrying out the work and applicable to the tasks being carried out. They may include but are not limited to – standard operating procedures, site safety procedures, equipment operating procedures, quality assurance procedures, housekeeping standards, procedures to comply with legislative and local body requirements.

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### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of quality control in forestry operations.

**Performance criteria**

- 1.1 Forestry operations are described and factors that improve quality within each operation are identified.
- Range forestry operations – establishment, silviculture, harvesting.
- 1.2 Quality control is explained in terms of job prescriptions.
- 1.3 The importance of regular quality control to the operation the candidate is involved with is described.
- Range production, rework time, contract stability, crew morale, value, safety, fatigue.
- 1.4 Methods used to measure quality in the operation the candidate is involved with are described.
- Range sampling type, equipment, job prescription requirements.

**Outcome 2**

Describe the factors that impact on the efficiency of a forestry operation.

**Performance criteria**

- 2.1 Operational planning in relation to the quality of the operation is described in accordance with worksite procedures.
- Range identification of bottlenecks, management of people and equipment, compliance requirements.
- 2.2 The importance of personal time management and crew time management is described in terms of its impact on the operation.
- 2.3 The impact of training on operational efficiency is described in terms of productivity, quality, and health and safety.
- 2.4 The impact of operational efficiency on the overall quality and profitability of the operation is described.
- Range plant, equipment, labour.

**Outcome 3**

Describe the effect of personal performance on productivity and product quality.

**Performance criteria**

- 3.1 The effect of personal time management on own productivity is described.
- Range includes but is not limited to – start time, breaks, finish time, distractions from personal life.
- 3.2 The effectiveness of personal performance is described in terms of product quality.
- 3.3 The impact of personal performance on downstream operations is described.
- 3.4 Methods to improve personal performance are described.
- Range time management, quality management, management of distractions from personal life.
- 3.5 The effect of training on personal performance is described.

<b>Planned review date</b>	31 December 2028
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	22 May 2008	31 December 2012
Revision	2	16 July 2010	31 December 2016
Review	3	19 March 2015	31 December 2017
Review	4	10 December 2015	31 December 2024
Review	5	27 February 2020	N/A
Rollover	6	26 April 2024	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0173
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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 Muka Tangata - People, Food and Fibre Workforce Development Council [qualifications@mukatangata.nz](mailto:qualifications@mukatangata.nz) if you wish to suggest changes to the content of this unit standard.