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| **Title** | **Carry out quality control in a forestry silviculture operation** | | |
| **Level** | **4** | **Credits** | **10** |

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| **Purpose** | This unit standard is intended for senior crew members and crew foremen who have responsibility for day-to-day quality control of a silvicultural forest operation and crew performance.<br><br>People credited with this unit standard are able to: demonstrate knowledge of quality control in a forestry silviculture operation; carry out a quality control activity in a forestry silviculture operation; and manage quality control outcomes and identify follow-up actions. |

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| **Classification** | Forestry > Forest Operations Advanced |

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| **Available grade** | Achieved |

## Guidance Information

1 Silvicultural forest operation may include – establishment, thinning to waste, pruning; evidence of one is required.

2 Legislation relevant to this unit standard includes the Health and Safety at Work (HSW) Act 2015; the Resource Management (National Environmental Standards for Plantation Forestry) Amendment Regulations 2018; and any subsequent amendments.

3 References
*Approved Code of Practice (ACOP) for Safety and Health in Forestry Operations*, December 2012, available from https://worksafe.govt.nz/.
New Zealand Forest Owners Association, *Forest Practice Guides* (2019), and any subsequent amendments, available from https://www.nzfoa.org.nz.

4 Definitions
*Accepted industry practice* – approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.
*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 a forestry silviculture operation.

**Performance criteria**

1.1 Quality control is described in terms of objectives and principles in accordance with accepted industry practice.

Range evidence of two objectives and two principles is required.

1.2 The benefits of quality control in a forestry silviculture operation are explained in accordance with accepted industry practice.

Range evidence of two short term benefits and two long term benefits is required.

1.3 The importance of recording results from quality control activity is explained in accordance with accepted industry practice.

### Outcome 2

Carry out a quality control activity in a forestry silviculture operation.

**Performance criteria**

2.1 Planning of the quality control activity is explained in accordance with worksite procedures.

Range: planning includes – representative of crew and area, plot location, sampling techniques.

2.2 Area where the quality control activity will be undertaken is identified in accordance with worksite procedures

Range identification may include but is not limited to – random placements, G.P.S. coordinates from job prescription, boundaries of areas, tree count and numbering, plot numbering, centre found.

2.3 The quality control activity is carried out in accordance with the job prescription and worksite procedures.

2.4 The recorded data from the quality control activity is analysed and a result determined in accordance with worksite procedures.

2.5 Outcomes of the quality control activity are explained in terms of compliant and noncompliant outcomes.


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**Outcome 3**

Manage quality control outcomes and identify follow-up actions.

**Performance criteria**

3.1 Results of the quality control activity are communicated to the crew and other relevant parties in accordance with worksite procedures.

Range other relevant parties may include – supervisor, forest owner, contractor.

3.2 Rework required is determined and communicated to the crew in accordance with worksite procedures.

Range area of rework, stand map, quality of rework, personnel involved, re-work check.

3.3 The quality control activity is documented including details of any rework, and results are saved, filed or submitted in accordance with worksite procedures.

Range documentation includes – plot data sheets, forest owner and contractor reports, crew diary entries.

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| **Planned review date** | 31 December 2024 |

**Status information and last date for assessment for superseded versions**

| Process | Version | Date | Last Date for Assessment |
|---|---|---|---|
| Registration | 1 | 15 September 2011 | 31 December 2017 |
| Review | 2 | 10 December 2015 | N/A |
| Review | 3 | 23 April 2020 | N/A |

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|---|---|
| **Consent and Moderation Requirements (CMR) reference** | 0173 |

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

**Comments on this unit standard**

Please contact Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.


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