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| Title | Determine forestry operations equipment requirements | | |
| Level | 6 | Credits | 3 |

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| Purpose | People credited with this unit standard are able to: determine equipment requirements for forestry operations; evaluate options, and select equipment for forestry operations; identify and develop equipment operator requirements; and develop maintenance and replacement schedules for forestry equipment. |
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| Classification | Forestry > Forestry Business Management |
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| Available grade | Achieved |
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Guidance Information

- 1 Definition
Accepted industry practice – approved codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.
- 2 Case studies may be used as the basis for this unit standard.

Outcomes and performance criteria

Outcome 1

Determine equipment requirements for forestry operations.

Performance criteria

- 1.1 Equipment performance requirements are determined from analysis of the work to be done.
- 1.2 Equipment specification developed reflects the needs identified and provides criteria for evaluation of options.

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| Range | capacity, flexibility, ability to operate in site conditions, operator requirements, code of practice requirements. |
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- 1.3 Equipment specification developed identifies economic factors to be addressed in evaluation of options.

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| Range | purchase cost, operational costs, service costs, projected effective work life, finance arrangements available, up-grading of existing equipment, tax considerations. |
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Outcome 2

Evaluate options, and select equipment for forestry operations.

Performance criteria

- 2.1 The evaluation process identifies equipment options which meet performance and economic specifications.
- 2.2 Option selected meets specification and allows for acceptable financial and support arrangements to be made.

Range selection meets requirements of finance provider, terms of financial arrangements can be serviced, service agreements and warranties available provide acceptable support for equipment operation.

Outcome 3

Identify and develop equipment operator requirements.

Performance criteria

- 3.1 Operator skill requirements are determined from: machine type and configuration, manufacturers' recommendations, intended use, and accepted industry practice.
- 3.2 Equipment operating procedures are developed and provided to ensure compliance with accepted industry practice and health and safety legislation.
- 3.3 Procedures are developed to enable feedback from operators to be used to modify equipment and/or operating procedures to maximise production output and safety.

Outcome 4

Develop equipment maintenance and replacement schedules for forestry equipment.

Performance criteria

- 4.1 Maintenance schedules developed conform with manufacturer's and/or supplier's recommendations.
- 4.2 Management of maintenance schedules ensures equipment is maintained and serviced in accordance with the developed schedule.
- 4.3 Performance evaluation methods adopted measure performance against specification and identify performance shortfalls.

4.4 Reasons for performance shortfalls are identified to enable improvement programme to be developed and implemented.

Range inadequate operator skills, lack of equipment performance against specification, incorrect maintenance and/or settings.

4.5 Procedures adopted for resolution of performance shortfalls meet requirements of agreements covering equipment provision and good employer requirements of employment legislation.

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| Planned review date | 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 | 7 August 1995 | N/A |
| Review | 2 | 27 May 1998 | N/A |
| Review | 3 | 27 May 2002 | 31 December 2017 |
| Review | 4 | 10 December 2015 | N/A |
| Rollover and Revision | 5 | 28 May 2020 | N/A |

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| Consent and Moderation Requirements (CMR) reference | 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 Competenz qualifications@competenz.org.nz if you wish to suggest changes to the content of this unit standard.