Title: Demonstrate knowledge of the log loading process

Level: 3
Credits: 5

Purpose: This unit standard is intended for people employed in a log loading or associated role in a forestry operation.

People credited with this unit standard are able to: demonstrate knowledge of loading areas in landing operations; demonstrate knowledge of landing surface protection; explain documentation requirements for logs leaving the site; demonstrate knowledge of machines used for loading logs in a forest situation; demonstrate knowledge of log loading and unloading; and demonstrate knowledge of split loads.

Classification: Forestry > Machine Operations - Forestry

Available grade: Achieved

Explanatory notes:
1. People seeking to enter the forest industry may elect to complete this unit standard through a training provider.

2. Definition
   Accepted forestry industry practice refers to documented codes of practice and standardised procedures accepted by the wider forestry industry as examples of best practice.
   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.

Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of loading areas in landing operations.

Evidence requirements

1.1 Requirements for functional loading areas are explained in accordance with accepted forestry industry practice.
Range stack placement, log transport access, load-out area, stack configurations, log processing areas, debris.

1.2 Effects of poorly planned loading areas on an operation are explained in accordance with accepted forestry industry practice.

Outcome 2
Demonstrate knowledge of landing surface protection.

Evidence requirements

2.1 Ways in which the surface of the landing can be damaged, and reasons why it is important to protect the surface of the landing, are described in accordance with accepted forestry industry practice.

2.2 Ways to prevent or minimise damage to the landing surface are described in accordance with accepted forestry industry practice.

Range may include but is not limited to – drainage, machine operation, waste, layout, bearers, machinery type, maintenance.

Outcome 3
Explain documentation requirements for logs leaving the site.

Evidence requirements

3.1 Purposes of log delivery dockets are explained in accordance with accepted forestry industry practice.

Range loader operator, transport operator, weighbridge operator, forest owner, customer, contractor.

3.2 Loader operator’s responsibilities in relation to log delivery dockets are explained in accordance with accepted forestry industry practice.

3.3 The importance of accurate log marking before logs leave a landing is explained in accordance with accepted forestry industry practice.

Outcome 4
Demonstrate knowledge of machines used for loading logs in a forest situation.

Range any three of – wheeled front end loader, tracked knuckle boom loader, ‘Bell’ type grapple loader, vehicle mounted hydraulic loader (self-loader), wheeled excavator.

Evidence requirements

4.1 Machines are described in terms of mobility, lifting capability, and reach in accordance with accepted forestry industry practice.
4.2 Situations for use of each machine type are explained in terms of operational capability in accordance with accepted forestry industry practice.

4.3 Differences in loading capability and versatility between machine types are explained in accordance with accepted forestry industry practice.

Range manoeuvrability, payload, required landing size.

4.4 Safety features are explained in accordance with accepted forestry industry practice.

Outcome 5

Demonstrate knowledge of log loading and unloading.

Evidence requirements

5.1 Hazards associated with log loading and unloading are described in accordance with accepted forestry industry practice.

5.2 The procedure for loading and unloading a logging truck is described in accordance with accepted forestry industry practice and worksite procedures.

5.3 The requirements of accepted forestry industry practice and worksite procedures relating to the loading and unloading of logs are described.

Range loading requirements include but are not limited to – overhang, short logs, static rollover threshold, overlapping logs, crowning load correctly, height restrictions, loading zone.

5.4 Log stack rotation requirements for an operation are described in accordance with worksite procedures.

5.5 The number of truck loads in two stacks is estimated.

Range visual, piece count.

5.6 Loading regulations relating to truck loads are described in accordance with accepted forestry industry practice.

Outcome 6

Demonstrate knowledge of split loads.

Evidence requirements

6.1 Situations when it would be appropriate to use split loads are explained in accordance with accepted forestry industry practice.

6.2 Issues associated with stock clean up and relocating of stock are explained in accordance with accepted forestry industry practice.
Range: distance travelled, load security, log grades, standard of roading, slope.

| Planned review date | 31 December 2020 |

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

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**Consent and Moderation Requirements (CMR) reference**

0173  

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