

Demonstrate knowledge of the log loading process

Level 3

Credits 4

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.

Subfield Forestry

Domain Machine Operations - Forestry

Status Registered

Status date 22 May 2008

Date version published 22 May 2008

Planned review date 31 December 2013

Entry information Open.

Accreditation Evaluation of documentation and visit by NZQA and industry.

Standard setting body (SSB) Forest Industries Training and Education Council (FITEC)

Accreditation and Moderation Action Plan (AMAP) reference 0173

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

Special notes

- 1 People seeking to enter the forest industry may elect to complete this unit standard through a training provider.
- 2 *Best Practice Guide* refers to the *Best Practice Guidelines for Transport* published by FITEC and any subsequent amendments. Available from FITEC at <http://www.fitec.org.nz>, or FITEC, PO Box 137067, Parnell, Auckland.

- 3 *Approved Code of Practice* refers to the *Approved Code of Practice for Safety and Health in Forest Operations* published by the Occupational Safety and Health Service, (Wellington: Department of Labour, 1999) and any subsequent amendments. Available at <http://www.osh.dol.govt.nz/order/catalogue/301.shtml>.
- 4 Definition
Worksite policy and procedures includes instructions to staff on policy and procedures (including the application of legislation to worksite situations) which are formally or informally documented. Examples are standard operating procedures, codes of practice, specifications, and worksite signage.

Elements and performance criteria

Element 1

Demonstrate knowledge of loading areas in landing operations.

Performance criteria

- 1.1 Requirements for functional loading areas are explained.
- 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.

Element 2

Demonstrate knowledge of landing surface protection.

Performance criteria

- 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.
- 2.2 Ways to prevent or minimise damage to the landing surface are described in accordance with the Best Practice Guide and environmental constraints.
- Range may include but is not limited to – drainage, machine operation, waste, layout, bearers, machinery type, maintenance.

Element 3

Explain documentation requirements for logs leaving the site.

Performance criteria

- 3.1 Purposes of log delivery dockets are explained.
- 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.
- 3.3 The importance of marking before logs leave a landing is explained.

Element 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.

Performance criteria

- 4.1 Machines are described in terms of mobility, lifting capability, and reach.
- 4.2 Situations for use of each machine type are explained in terms of operational capability.
- 4.3 Differences in loading capability and versatility between machine types are explained.
- Range manoeuvrability, payload, required landing size.
- 4.4 Safety features are explained in accordance with the Approved Code of Practice.

Element 5

Demonstrate knowledge of log loading and unloading.

Performance criteria

- 5.1 Hazards associated with log loading and unloading are described.
- 5.2 The procedure for loading and unloading a logging truck is described in accordance with the Best Practice Guide and worksite policy and procedures.
- 5.3 The requirements of the Approved Code of Practice, the Best Practice Guide, and worksite policy and 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, personnel.
- 5.4 Log stack rotation requirements for an operation are described in accordance with worksite policy and 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 the Best Practice Guide.

Element 6

Demonstrate knowledge of split loads.

Performance criteria

6.1 Explain when it would be appropriate to use split loads.

6.2 Issues associated with stock clean up and relocating of stock are explained.

Range distance travelled, load security, log grades, standard of roading, slope.

Please note

Providers must be accredited by NZQA, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by NZQA before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP 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 the Forest Industries Training and Education Council (FITEC) info@fitec.org.nz if you wish to suggest changes to the content of this unit standard.