Title Demonstrate knowledge of forest industry machines

Level 3 Credits 5

Purpose People credited with this unit standard are able to: demonstrate knowledge of forest industry machines and their capabilities; the safety features of forest industry machines; the ergonomic features of forest industry machines; fuel management of forest industry machines; and fire risk and fire prevention involving forest industry machines.

Classification Forestry > Machine Operations - Forestry

Available grade Achieved

Explanatory notes

1 Best Practice Guide refers to the Best Practice Guidelines for Mobile Plant published by Competenz and any subsequent amendments. Available from Competenz at http://www.competenz.org.nz, or Competenz, PO Box 9005, Newmarket, Auckland 1149.


3 Definition Worksite policies and procedures refer to documented policies and to documented or other directions provided to staff. These include, but are not limited to, ways of managing health and safety, environmental considerations, quality, and production, and must conform to legislation. Examples include standard operating procedures, company health and safety plans, on-site briefings, and supervisor's instructions.
Outcomes and evidence requirements

Outcome 1

Demonstrate knowledge of forest industry machines and their capabilities.

Evidence requirements

1.1 Hazards specific to operating forest industry machines are identified and ways to manage these are explained in accordance with the Code of Practice and the Best Practice Guide.

Range may include but is not limited to – terrain, ground conditions, obstacles, logging debris, machine instability, overhead hazards, slew momentum, mechanical failure, other workers, restricted visibility, congested worksites, moving parts, heat, pressure, handling fuel and oil; evidence of ten is required.

1.2 Limitations of forest industry machines are described in accordance with the Best Practice Guide, manufacturer’s recommendations and worksite policies and procedures.

Range limitations include but are not limited to – ground conditions, slope, load size, machine weight, traction.

1.3 Control and steering of forest industry machines are described in accordance with manufacturer’s recommendations.

Range may include but is not limited to – slew control, travel speed, turning speed, payload size and position, blade position, boom and stick position, size of attachment; evidence of six is required.

1.4 Safe working load capacities are explained in accordance with the Code of Practice, Best Practice Guide, manufacturer’s recommendations and worksite policies and procedures.

Outcome 2

Demonstrate knowledge of the safety features of forest industry machines.

Evidence requirements

2.1 Safety features of forest industry machines are described in accordance with the Best Practice Guide and manufacturer’s recommendations.
Range protective structures, guarding, fire suppression system, seatbelt, throttle lock out, braking system.

2.2 Action to be taken when safety features are compromised is explained in accordance with the manufacturer’s recommendations and worksite policies and procedures.

2.3 Rules governing the operation of forest industry machines are explained in accordance with the Code of Practice.

Range Code of Practice rules may include but are not limited to – seatbelts, doors, night work, noise levels, cabs, guarding, powerlines, moving machinery, maintaining machinery.

2.4 The operation and relocation of forest industry machines on public roads are explained in accordance with the Code of Practice.

Outcome 3

Demonstrate knowledge of the ergonomic features of forest industry machines.

Evidence requirements

3.1 Ergonomic features of forest industry machines are explained in accordance with the Best Practice Guide and manufacturer’s recommendations.

Range seat, controls, noise control, climate control, lighting, cab access, vibration control.

3.2 Ergonomic set-up before operating machines, and benefits of correct set-up are explained in accordance with the Best Practice Guide, manufacturer’s recommendations and worksite policies and procedures.

Outcome 4

Demonstrate knowledge of fuel management of forest industry machines.

Evidence requirements

4.1 Fuel management requirements are explained in accordance with the Code of Practice and worksite policies and procedures.

Range fuel storage, fuel transportation.

4.2 Refuelling procedures of forest industry machines are explained in accordance with the Code of Practice, manufacturer’s recommendations, and worksite policies and procedures.
Outcome 5

Demonstrate knowledge of fire risks and fire prevention relating to the use of forest industry machines.

Evidence requirements

5.1 Potential fire risks related to the use of forest industry machines are identified and explained in accordance with the Best Practice Guide.

Range evidence of three potential fire risks.

5.2 Actions taken to minimise or eliminate fire risks identified in evidence requirement 5.1 are explained in accordance with worksite policies and procedures.

Planned review date

31 December 2017

Status information and last date for assessment for superseded versions

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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.

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