Title | Operate a vehicle mounted hydraulic loader in a commercial forestry environment
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Level | 3 Credits | 10

**Purpose**

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

People credited with this unit standard are able to: demonstrate knowledge of vehicle mounted hydraulic loaders and their capabilities; prepare for operating a vehicle mounted hydraulic loader; and operate a vehicle mounted hydraulic loader.

**Classification**

Forestry > Machine Operations - Forestry

**Available grade**

Achieved

**Explanatory notes**

1. This unit standard must be assessed against on-job.

2. Definitions

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

   *PPE* refers to personal protective equipment and may include but is not limited to protective clothing, gloves, safety glasses, headwear, footwear, hearing protection, and safety devices.

   *Worksite procedures* – 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 vehicle mounted hydraulic loaders and their capabilities.

**Evidence requirements**

1.1 Factors that influence where vehicle mounted hydraulic loaders can be operated are explained in accordance with accepted industry practice.
1.2 Hazards specific to operating a vehicle mounted hydraulic loader are described, and ways to manage these explained, in accordance with accepted industry practice and worksite procedures.

Range ground conditions, soil moisture, obstacles on the ground, debris, machine instability, machine suitability and state of repair, proximity of other workers, restricted visibility.

1.3 The limitations of a vehicle mounted hydraulic loader are described in accordance with manufacturer’s recommendations and worksite procedures.

Range ground conditions, stack location, crane reach and lifting capacity.

1.4 Control of a vehicle mounted hydraulic loader is described in accordance with manufacturer’s recommendations.

Range boom and stick movement, grapple control, slewing ability.

1.5 Action required in the event of unusual vibrations, noises, smells, or changes in operating pressure are described in accordance with manufacturer’s recommendations.

Outcome 2

Prepare for operating a vehicle mounted hydraulic loader.

Evidence requirements

2.1 PPE is worn in accordance with accepted industry practice.

2.2 Hazards in the operation are identified and managed in accordance with accepted industry practice.

2.3 Means of emergency communication and contact schedule are explained in accordance with accepted industry practice.

2.4 Preferred work practices for log loading are explained in accordance with accepted industry practice.

Range Truck driver and loader responsibilities, trailer lifting, loading operations, loading zone.

2.5 Truck is positioned to facilitate log loading in accordance worksite procedures.

Range may include but is not limited to – stack location, surface conditions, trailer position.

2.6 Pre-operation checks are performed in accordance with the manufacturer’s recommendations and worksite procedures.
Range safety features, hydraulic hose condition, outriggers, boom and grapple condition.

2.7 Outriggers are positioned in accordance with the manufacturer’s recommendations.

2.8 Operator accesses crane seat in accordance with accepted industry practice.

Range three point contact, facing machine, condition of ladder.

**Outcome 3**

Operate a vehicle mounted hydraulic loader.

**Evidence requirements**

3.1 Machine is operated within its limitations and operator capabilities in accordance with accepted industry practice.

Range boom and stick movement, slewing speed, grapple operation, log handling.

3.2 Swing and position of suspended logs is controlled by movement of the boom and grapple.

3.3 Load is secured in accordance with accepted industry practice.

3.4 Crane is positioned for safe road travel in accordance with the manufacturer’s recommendations and accepted industry practice.
Consent and Moderation Requirements (CMR) reference

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