



Australian Government

FWPHAR3228 Operate loader

Release: 1

FWPHAR3228 Operate loader

Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 3.0.

Application

This unit of competency describes the skills and knowledge required to operate an articulated front-end wheel loader for log production and use optimised production processes in a commercial forest harvesting environment. The main job functions are to load log trucks and/or sort log stacks at roadside or landing area for transportation. Other functions include slash removal. Activities are to be conducted safely and efficiently.

The unit applies to individuals who work as loader operators in small or larger harvesting crews. Operators generally work under broad direction to complete routine activities related to crawler tractor operations and take responsibility for their work.

No occupational licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Harvesting (HAR)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Plan and prepare to operate a loader	<p>1.1 Review production plan, confirm its targets for felling and processing and assess wood flow requirements to ensure efficient machine operation and overall productivity</p> <p>1.2 Confirm type, size and quantity of logs or slash to be clamped to ensure that loads and machine are in line with safe working</p>

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	<p>requirements and industry standards for operations</p> <p>1.3 Confirm, identify and report health, safety, environmental and heritage risks of operation in line with standard operating procedures and site safety and environmental management plans</p> <p>1.4 Apply risk control measures in line with standard operating procedures, site operational plan, legislative requirements and industry standards to eliminate or minimise risks</p> <p>1.5 Identify emergency plan procedures to follow in the event of an emergency</p> <p>1.6 Use production plan to identify layout of landing or roadside area and access to logs for efficient process and minimum interference with other forestry operations</p> <p>1.7 Assess terrain characteristics to establish machine stability</p> <p>1.8 Carry out pre-operational checks on machine in line with workplace procedures or manufacturers' recommendations to ensure optimal production performance and operational effectiveness</p>
2. Operate loader to load log trucks and/or sort log stacks	<p>2.1 Use industry-accepted warning signs, vehicle-to-vehicle communication systems and procedures to maintain communication and workplace safety during operation</p> <p>2.2 Position loader for stability and safe access to logs/slash, by adjusting the technique in response to terrain conditions</p> <p>2.3 Use machine cabin controls to clamp bunches of logs/slash, and load trucks and/or sort stacks, while ensuring that the bunch size is suited to the log clamp capacity and terrain conditions</p> <p>2.4 Systematically load trucks and/or construct log/slash stacks by using handling techniques to avoid log damage in line with the production plan requirements and ensure safety and stability of truck and/or stacks</p> <p>2.5 Use appropriate techniques to maintain log product separation in the truck when multiple product grades are loaded or in line with the production plan requirements</p> <p>2.6 Drive the machine and manoeuvre log clamp safely and efficiently to avoid logs, machine and environment damage in line with the production plan requirements</p> <p>2.7 Ensure all merchantable product and/or slash from the site is loaded or sorted in line with the production plan requirements</p>

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
3. Segregate and stack stems and/or logs	<p>3.1 Visually assess and measure products for size, species and quality characteristics at the felling site and during staking at the roadside or landing bay, to ensure they are placed in the appropriate stack and in line with the production plan requirements</p> <p>3.2 Mark and report logs that cannot be clearly and safely assessed in line with the production plan requirements</p> <p>3.3 Position and construct stacks of stems or logs to avoid product damage, provide stability, restrict height for efficient extraction and facilitate safe access and conduct of other landing and machine operations in line with worksite layout and production plan requirements</p> <p>3.4 Maintain stack separation and identification to ensure products are correctly presented on roadside and/or landing bay for an optimum transport and logistics cycle time in line with industry standards and production plan requirements</p> <p>3.5 Clean area of all debris resulting from loader operation in line with resource management policies</p>
4. Carry out machine operator maintenance	<p>4.1 Park, shut-down, de-energise and isolate loader in line with workplace procedures or manufacturers' recommendations</p> <p>4.2 Clean, check and carry out routine maintenance tasks on loader to maintain optimum operational performance</p> <p>4.3 Identify and report machine faults, malfunctions or problems in line with workplace procedures or manufacturers' recommendations</p> <p>4.4 Clean work area and dispose of or recycle waste materials in line with site environmental management plan</p> <p>4.5 Record loader operations and maintenance activities</p>

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	<ul style="list-style-type: none"> read production plans, site safety and environmental management

Skill	Description
	<p>plans in a forest harvesting environment</p> <ul style="list-style-type: none"> • read standard operating procedures and/or manufacturers' instructions for the operation of forest harvesting machinery
Writing	<ul style="list-style-type: none"> • record operation, production and machine maintenance on paper based or electronic media
Oral Communication	<ul style="list-style-type: none"> • interact verbally and non-verbally using agreed systems and processes to communicate with others on site to ensure safe and effective machine operations • use appropriate vocabulary, including technical language directly relevant to role
Numeracy	<ul style="list-style-type: none"> • interpret gauges relevant to safe operation of harvesting machinery • determine construction of stable log stack • estimate the weight of logs to determine loading requirements and compliance to machine specifications
Navigate the world of work	<ul style="list-style-type: none"> • understand main tasks, responsibilities and boundaries of own role
Interact with others	<ul style="list-style-type: none"> • use modes of communication suitable to purpose to confirm and clarify understanding • communicate and report operational and safety information to on-site personnel
Get the work done	<ul style="list-style-type: none"> • recognise and respond to routine problems • plan and organise own work activities and resources

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPHAR3228 Operate loader	FWPHAR3218 Conduct loader operations	Significant changes to reflect industry requirements for a safe, appropriate and efficient operation, including product quality. A new element and new PCs were added, most PCs were edited and PE and KE increased in content to map against the revised	No equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
		PCs. Additional foundation skills identified. Code and title change for consistency with other machine operation units.	

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>