



Australian Government

FWPHAR3218 Conduct loader operations

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPIHAR3218A Conduct loader operations, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format.

Application

This unit of competency describes the outcomes required to operate a loader and attachments to shift materials and logs. Work is completed in a forest or forest farm setting and includes segregating and stacking logs and operator maintenance.

The unit applies to those who conduct loader operations in a forest environment.

Licensing, legislative, regulatory or certification requirements apply to this unit in some state and territories at the time of publication, and may differ according to jurisdiction.

Pre-requisite Unit

Nil

Unit Sector

Harvesting and Haulage

Elements and Performance Criteria

<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.</i>
1. Plan loader operations	1.1 Review work order and where required check with appropriate personnel. 1.2 Select appropriate personal protective equipment and check for operational effectiveness. 1.3 Identify type, quantity and weight of material to be moved to determine lifting requirements and compliance with load plate. 1.4 Plan loader operations in line with work order and heritage concerns.

	1.5 Check loader controls and functions, attachments, brakes and manoeuvrability to ensure operational effectiveness.
2. Operate loader to shift materials	2.1 Use equipment in line with organisational safety procedures, manufacturer's instructions and environmental protection practices. 2.2 Select, attach and stabilise lifting gear in line with safe working load requirements and organisational safety procedures. 2.3 Secure load to ensure stability. 2.4 Operate loader to shift material with optimum efficiency; observe and respond to people and hazards present. 2.5 Use communication signals throughout shifting operations to notify nearby personnel of presence.
3. Load and unload logs.	3.1 Plan loading and unloading work to minimise equipment and log movement. 3.2 Position loader to enable access to logs within load reach and movement limits. 3.3 Complete a trial lift to ensure stability and make adjustments to loads. 3.4 Select and segregate logs by size and grade; transfer and place logs suitable for base and side of load. 3.5 Separate and roll or lift individual logs using appropriate equipment movement techniques. 3.6 Use lifting gear to bunch logs to optimise loaded movements. 3.7 Lift, turn and place loads to achieve optimum load shape using appropriate equipment movement techniques. 3.8 Support or compress logs to enable placement of slipper or chocks. 3.9 Reject or report logs that do not meet size and grade requirements.
4. Segregate and stack logs	4.1 Position log stacks in line with work order plan for landing layout. 4.2 Visually assess logs for size, length, species and grade and segregate accordingly. 4.3 Allow space for other operations and construct stacks to provide stability and minimise potential of slippage and falling of logs. 4.4 Maintain log stacks to meet stock level requirements. 4.5 Move logs to designated location for further processing.
5. Complete operator maintenance.	5.1 Safely park, shut down and prepare loader for maintenance. 5.2 Inspect loader for faults, remove and replace defective parts in line with manufacturer's recommendations 5.3 Complete cleaning and programmed maintenance tasks for loader;

	dispose of waste materials in line with environmental protection practices. 5.4 Record and report process outcomes, equipment faults and maintenance requirements to appropriate personnel.
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Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.

Numeracy skills to:	• identify quantities and weight of material to be moved from work orders • complete routine calculations to determine material dimensions and weights for loading, transfer and stacking.
Oral communication skills to:	• ask questions and actively listen to clarify contents of work orders • provide clear, unambiguous verbal and non-verbal communication signals.
Reading skills to:	• interpret: • workplace health and safety and other organisational procedures • work orders • manufacturers instructions and maintenance recommendations
Writing skills to:	• complete accurate basic records for process outcomes, equipment faults and maintenance requirements.
Planning and organising skills to:	• efficiently and logically sequence the stages of preparation and material moving and relocating, using work order to guide activities.
Problem-solving skills to:	• identify oversize, overweight and unstable items and make loading adjustments • recognise faulty equipment and resolve by reporting.

Range of Conditions

Not Applicable

Unit Mapping Information

FPIHAR3218A Conduct loader operations

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for FWPHAR3218 Conduct loader operations

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1	Replaces equivalent unit FPIHAR3218A Conduct loader operations, which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. This is the first release of this unit in the new standards format. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including Required Skills and Knowledge, Evidence Guide and Range Statement.

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit. If a specific volume or frequency is not stated below, then evidence must be provided that the following requirements have been performed on at least one occasion:

- operate a loader and lifting gear to complete tasks, chosen from the following list, in line with individual work orders:
 - tree removal
 - stripping
 - spreading materials
 - stockpiling
 - loading and unloading of trucks
 - loading mill decks
 - segregating and splitting of logs
 - bulk excavation
 - towing equipment
 - winching
 - boxing
- operate a loader and lifting gear to load, unload and stack logs for landing locations in line with an individual work order for each job
- complete operator maintenance after the completion of log transfer jobs.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- environmental protection practices for operating loaders:
 - reducing water and energy use
 - cleaning plant, tools and equipment
 - disposing of, recycling and reusing timber and other waste
- common environmental and heritage concerns relevant to operating a loader and methods used to minimise damage:
 - dust
 - noise
 - water
 - flora and fauna
 - culturally sensitive sites and artefacts
 - plantations
 - native forest
- typical work flow processes for transferring materials and logs to and from designated areas
- typical workplace hazards present during transfer operations and methods of minimising risks
- capacity of loaders and attachments in relation to dimensions and weight
- operating techniques for loaders and range of movements
- methods to correctly load transfer equipment to ensure stability of load and equipment
- methods used to stack logs to ensure stability
- visual characteristics of logs and methods used to assess and segregate according to:
 - log species
 - diameter
 - length
 - grade
- key features of these varying signal systems used for transfer processes:
 - hand signals
 - whistles
 - sirens
 - loud speaker announcements
 - two way radios
- typical industry chain of command for communicating signals during transfer processes
- purpose, features, operation and shut down of loading equipment used to transfer materials and logs:
 - loaders
 - lifting gear:
 - slings

- cables
- grabs
- methods for:
 - assessing condition of loader parts
 - removing and replacing defective parts
- organisational procedures specific to transferring materials and logs using loaders:
 - workplace health and safety with particular emphasis on equipment lock out and use of personal protective equipment
 - communication reporting lines
 - recording and reporting transfer processes, equipment faults and maintenance requirements.

Assessment Conditions

The following resources must be made available:

- loaders
- lifting gear including:
 - slings
 - cables
 - grabs
- maintenance tools and equipment for removing and replacing defective loader parts
- communication equipment used to signal operation of loader
- personal protective equipment suitable for operating a loader
- commercial quantities of materials and logs to be shifted
- manufacturers' instructions for equipment use and maintenance
- work order with instructions for moving materials and logs to and from designated locations
- template documents for recording transfer processes, equipment faults and maintenance requirements
- relevant personnel for the purposes of communicating information
- organisational procedures for transferring materials and logs using loaders.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.
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