



Australian Government

Assessment Requirements for FWPHAR3227 Operate forwarder

Release: 1

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Modification History

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

Performance Evidence

An individual demonstrating competency must satisfy all the elements and performance criteria of this unit. There must be evidence that, on at least one occasion, the individual has:

- planned, prepared and safely and effectively operated a forwarder and equipment to load, transport and unload logs in stacks and/or on a truck
- checked risks associated with the operation and apply standard operating procedures
- followed production plan requirements and site safety and environmental management plan
- determined suitability and stability of forwarder for operation and safe working load limits, by considering capacity and limitation of machine, terrain characteristics and type, size and quantity of logs to be loaded
- adjusted machine driving and positioning techniques in response to terrain conditions
- applied loading, unloading and driving techniques to minimise damage to logs, standing trees, machine and environment in line with the production plan requirements
- placed, stacked and presented logs for efficient transportation and identification in line with the production plan requirements
- communicated effectively with others in the work area
- shut down, de-energised and isolated machine in line with workplace procedures and operator's manual
- carried out routine maintenance on forwarder parts.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- information and requirements contained in a production plan and site safety and environmental management plans
- hazardous or safe working zones in forest harvesting operations
- health and operational hazards or risks related to forwarder operations and factors that can change or introduce new hazards

- industry-accepted work health and safety risk control measures, legal obligations of the current Work Health and Safety Acts or Occupational Health and Safety Acts and regulations and requirements of industry standards and/or codes of practice for single grip harvesting operations as outlined in workplace procedures and production plan
- industry-accepted warning signs, their correct positioning, vehicle-to-vehicle communication systems and procedures to maintain communication and workplace safety during forwarder operations
- required emergency response procedure including firefighting resources and emergency response
- potential impacts of forwarder operations on onsite and offsite environmental values including cultural heritage, flora, fauna, ground compaction, water contamination and soil erosion
- industry-accepted environmental control measures, environmental restrictions, legal obligations of current Environment Protection Acts and regulations and requirements of industry standards and/or codes of practice for forwarder operations as outlined in workplace procedures and production plan
- landings usage, typical location of loading and/or landing site
- extraction methods for tree felling patterns
- wood flow requirements and extraction and production bottlenecks particular to a production system
- effects of weather on ground conditions
- effects of slope and terrain conditions on forwarder stability and operation
- log species, quality characteristics and defects particular to the site and production system
- regional quality requirements for log products with particular end uses, markets and values
- maximum log damage or defects and minimum quality allowances particular to a production system
- techniques particular to a production system to avoid mechanical damage to logs during loading, unloading and stacking; separate and present logs for efficient transportation and identification of the product
- machine specifications, restrictions and safe operating procedures including stability and operation in different terrain conditions, slopes and road types and methods to shut down, de-energise and isolate the machine as outlined in workplace procedures or operator's manual
- using machine cabin controls
- techniques to restrain logs safely
- techniques for safe and efficient driving of forwarder to landing area or the mill
- location of machine's major mechanical systems and parts of the machine in which energy is stored as outlined in operator manuals for safe and efficient conduct of the machine operator maintenance tasks
- methods to conduct machine pre-operational checks and detect faults as outlined in workplace procedures or operator's manual
- machine maintenance and servicing requirements as outlined in workplace procedures or operator's manual

- industry-accepted reporting requirements regarding site, incident and hazard, personal reporting, check-in, production, machine maintenance and block completion.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest harvesting site or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - forwarder
 - suitable logs to load, unload and stack
 - personal protective equipment required in harvesting operations
 - vehicle-to-vehicle communication systems
- specifications:
 - access to workplace policies and procedures which cover current Work Health and Safety Acts or Occupational Health and Safety Acts, regulations and related industry standards and codes of practice applicable to forest harvesting operations
 - access to workplace policies and procedures which cover current Environment Protection Acts, regulations and related industry standards and codes of practice applicable to forest harvesting operations
 - access to production plan and safety and environmental management plans
 - access to site emergency procedure
 - access to workplace safety procedures for operating single grip harvester or operator's manual
 - access to user manual for vehicle-to-vehicle communication system.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

Links

Companion Volume implementation guides are found in VETNet -

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