



Australian Government

Assessment Requirements for FWPHAR3225 Operate excavator with log grapple

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 an excavator with log grapple, to load logs/slash on trucks and/or sort and stack logs in line with a production plan
- checked risks associated with the operation and applied standard operating procedure
- followed production plan requirements and site safety and environmental management plan
- determined suitability and stability of the machine for operation by considering machine specifications, terrain characteristics and type and size of logs to be grappled
- adjusted machine positioning technique in response to terrain conditions
- demonstrated knowledge of log species, quality characteristics and defects in line with the production plan requirements
- applied machine techniques to drive, grapple, load and/or stack logs or slash and minimise damage to products, machine and surrounding environment in line with the production plan requirements
- placed, stacked and presented products 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 the machine.

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 excavator with log grapple 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 excavator with log grapple 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 work safety during operations
- required emergency response procedure, including firefighting resources and emergency response
- potential impact of excavator with log grapple operations on onsite and offsite environmental values including cultural heritage, flora, fauna, ground compaction, water contamination and soil erosion
- industry-accepted environmental control measures, restrictions, legal obligations of the current Environment Protection Acts and regulations and requirements of industry standards and/or codes of practice for excavator with log grapple operations as outlined in workplace procedures and production plan
- landings usage
- wood flow requirements and extraction and production bottlenecks particular to a production system
- 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 defect and minimum quality allowances particular to a production system
- techniques particular to a production system to avoid mechanical damage to logs during grappling, loading and stacking; separate and present logs for efficient transportation and identification of the product
- effects of weather on ground conditions
- effects of terrain conditions on machine stability and operation
- 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 for safe and efficient driving of the machine during operation
- methods to conduct machine pre-operational checks and detect faults as outlined in workplace procedures or operator's manual
- 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
- 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:
 - excavator with log grapple
 - logs/slash for loading and/or segregation and stacking
 - personal protective equipment required in harvesting operations
 - vehicle-to-vehicle communication system
- specifications:
 - access to workplace policies and procedures which cover current Work Health and Safety Acts or Occupation 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, site operational plan and safety and environmental management plans
 - access to site emergency procedure
 - access to workplace standard operating procedures for excavator with log grapple or operator's manual
 - access to user manual for vehicle-to-vehicle communication unit

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>