



Australian Government

Assessment Requirements for FWPHAR3229 Operate single grip harvester

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 single grip harvester to cut and produce log products with optimal length, quality and diameter in line with log cutting instructions, quality specifications or production plan
- checked risks associated with the operation and applied standard operating procedures
- followed production plan requirements, log cutting instructions or quality specifications and site safety and environmental management plan
- adjusted machine driving and positioning techniques in response to terrain conditions and unexpected characteristics, movement or condition of tree
- applied felling and processing techniques to minimise damage to the stem, logs, standing trees, machine and surrounding environment in line with the production plan requirements
- applied knowledge of log species, quality characteristics and defects during operation 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 single grip harvester.

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, log cutting instructions or product quality specifications and site safety and environmental management plans
- hazardous or safe working zones in forest harvesting operations

- health and operational hazards or risks related to single grip harvesting operations and factors that can change or introduce new hazards or risks including characteristics of difficult trees and risks associated with falling them safely
- 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 work safety during single grip harvesting operations
- required emergency response procedure including firefighting resources and emergency response
- potential impacts of single grip harvester 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 single grip harvesting operations as outlined in workplace procedures and production plan
- typical location of loading and/or landing site
- tree felling patterns
- extraction methods
- wood flow requirements and extraction and production bottlenecks particular to a production system
- tree shapes, species, quality characteristics and log defects particular to the site and production system
- regional quality requirements for log products with particular end uses, markets and values
- requirements and methods to achieve maximum stump height in response to unexpected characteristics or condition of the trees and ground level
- maximum log damage and defect and minimum quality allowances particular to a production system
- techniques particular to a production system to avoid mechanical damage to logs during felling, processing and stacking; achieve saw cuts at both ends of the product that meet quality specifications; avoid incorrect or excessive log butting; separate and present logs for efficient transportation and identification of the product
- effects of weather on ground conditions
- effects of slope and 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, chain shot rules, methods to shut down, de-energise and isolate the machine and optimal direction of travel as outlined in workplace procedures or operator's manual
- using machine cabin controls
- techniques for safe and efficient driving of single grip harvester

- 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:
 - single grip harvester
 - suitable trees to fell and process
 - 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 off on 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, log cutting instructions and safety and environmental management plans
 - access to site emergency procedure
 - access to workplace standard operating procedures for 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>