



Australian Government

Assessment Requirements for FWPHAR3232 Operate harvesting machine with winch-assist system

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 6.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has:

- planned, prepared and safely and effectively operated two different types of harvesting machines with winch-assist system on two occasions according to a work order or work instructions. The harvesting machines must be selected from the following:
 - skidder
 - forwarder
 - harvester
 - feller buncher
- carried out routine maintenance on a harvesting machine with winch-assist system on two occasions.

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 in production, site safety and environmental management plans relevant to forest harvesting operations
- industry standards, codes of practice and guidelines for harvesting on steep slopes and their requirements as outlined in site safety and environmental management plans
- safe work procedures and safe working zones in forest harvesting operations
- hazards and risks related to operating harvesting machines with winch-assist system, and factors that can change or introduce new hazards
- types and correct positioning of warning signs, vehicle-to-vehicle communication systems, and procedures to maintain communication and workplace safety during winch-assist harvesting operations
- firefighting and emergency response procedures

- potential impacts of winch-assist harvesting operations on onsite and offsite environmental values:
 - cultural heritage
 - flora
 - fauna
 - ground compaction
 - water contamination
 - soil erosion
- environmental protection procedures relevant to forest harvesting operations
- types of winch-assist systems:
 - systems with one cable, where the winch is attached to the harvesting machine (integral)
 - systems with one or more winches fitted to a machine positioned at the top of an incline (independent)
- reasons for using winch-assist system:
 - safety
 - available steep slope fibre
 - reduce manual felling
- maximum safe slope for using harvesting machines with winch assist system
- features of winch-assist system:
 - cables and end termination fittings
 - safety, braking and emergency backup systems
- procedures for operating winch assist system:
 - pre-start checks of cables and end termination fittings
 - operation of controls for winch-assist system
 - procedures for positioning machine on slope
 - techniques to increase traction and maximise stability of harvesting machine before and during operation
 - methods to detect faults as outlined in operator manual
 - machine and cable systems maintenance and servicing requirements as outlined in operator manual
- criteria for safe placement of winch-assist machine:
 - access
 - ground stability
 - alignment to felling face
 - cable path
 - cable departure point from anchor
- effects of slope and terrain conditions on machine stability and operation
- harvesting machine types, specifications, restrictions and safe operating procedures, stability and operation in different terrain conditions and slopes, and methods to shut down the machine as outlined in workplace procedures or operator manual

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

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a forest harvesting setting
- resources, equipment and materials:
 - harvesting machines with winch-assist system
 - trees to be harvested
 - personal protective equipment required in harvesting operations
 - vehicle-to-vehicle communication system
- specifications:
 - access to work order or instruction detailing harvesting activities to be carried out by operator
 - access to workplace safety and environmental protection policies and procedures applicable to forest harvesting operations
 - access to harvesting plan
 - access to site emergency procedure
 - access to workplace safe operating procedures or operator manual for harvesting machine and winch-assist system
 - 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 Volumes, including Implementation Guides, are available at VETNet: - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>