



Australian Government

Assessment Requirements for FWPHAR3223 Use on-board computer systems for 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:

- used on-board computer system to process and mark logs safely and effectively in line with the log cutting instructions
- reloaded and/or created a felling site file in the cutting instruction file
- assigned log grades to buttons on the joystick keypad
- reset the harvesting head length counter
- uploaded, edited and saved harvester settings and parameters for feeding and sawing
- adjusted settings and monitored grapple or delimb arm pressures
- edited the diameter potentiometer' settings
- applied knowledge of species and quality characteristics to process trees and overridden the on-board computer settings to process trees into the highest value combination
- conducted accurate calibrations of harvesting heads
- conducted length and diameter accuracy checks of processed logs against cutting instructions
- saved production files on a data storage device and transferred files either manually or via mobile devices.

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:

- methods to correctly turn on/off the on-board computer system
- using the on-board computer keyboard and mouse or touchscreen
- navigating on-board computer menus, sub-menus and fields using cutting instructions, calibration and production files
- loading new cutting instruction files and reloading inactive files
- fields and data inputs required to start a processing operation
- editing cutting instruction file and restrictions

- saving production, control measurement and calibration files and transferring files using a data storage system or via mobile app
- fields and information contained in the cutting instruction file including matrix displays, maximum damage and minimum quality allowances for log grades and bark function
- values in the price matrix and how they affect the performance of the cutting instruction file
- computer methods to adjust feed performance, feed ramping, grapple or delimb arm pressures and diameter potentiometer
- harvesting head settings
- settings to program quality grade buttons on the joystick keypad
- using harvester's controls and quality buttons correctly
- methods to override the computer and limitations or restrictions as prescribed by forest management company to prevent issues with the software and the machine
- length and diameter measuring system fitted on harvesting heads
- on-board computer methods to calculate a diameter at a given distance along the stem
- methods for calibrating the measuring system of harvesting head for length and diameter
- signs of wear and faults to harvester head mechanisms
- effects of worn mechanical linkages on the length and diameter measuring mechanisms
- methods to conduct and record length and diameter accuracy checks and frequency of measurements
- methods for calibrating and verifying measuring tools for length and diameter including tapes and callipers
- causes of manual and mechanical length and diameter measurement error
- methods to reset the harvesting head's length counter
- methods to identify faults related to the on-board computer system and GPS.

Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
 - skills must be demonstrated in a logging site or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - single grip harvester equipped with on-board computer system and GPS
 - standard and digital measuring tools for calibration
 - data storage system or mobile system/app for the purpose of saving and transferring production files
 - personal protective equipment required in harvesting operations
- specifications:
 - access to user manual for on-board computer system
 - access to sample cutting instruction, calibration and production files

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>