



Australian Government

FWPHAR3222 Use on-board computer systems for forwarder

Release: 2

FWPHAR3222 Use on-board computer systems for forwarder

Modification History

Release	Comments
Release 2	This version released with FWP Forest and Wood Products Training Package Version 5.0.
Release 1	This version released with FWP Forest and Wood Products Training Package Version 3.0.

Application

This unit of competency describes the skills and knowledge required to use on-board computer technology and software for forwarders to optimise loading processes after processing and extraction in a commercial forest harvesting environment.

The unit applies to individuals who work as forwarder operators. Operators generally work under broad direction to complete routine activities related to harvesting operations and take responsibility for their work.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil

Unit Sector

Harvesting (HAR)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Start up and shut down the on-board computer	1.1 Start up the on-board computer and respond to display prompts by pressing the appropriate buttons 1.2 Edit settings in work mode display to update information about operator and the start and end of the shift

	1.3 Check that a connection exists between the weight scale and the Bluetooth modem where fitted 1.4 Use mouse buttons and keyboard to shut down the computer
2. Create an active site file	2.1 Use menus and fields to create a new site, select, disable or add tree assortments to the new site and press button to complete file set up 2.2 Use work mode feature and icons to view basic information about machine, engine and auxiliary functions 2.3 Use quick adjustment menu and/or the setting mode to select and adjust parameter values for machine movements 2.4 Return to work mode display and select option to start new load
3. Register load / production information	3.1 Identify on screen that GPS system is active to ensure it runs correctly and report faults to appropriate personnel in line with workplace procedures 3.2 Start loading operations and use registration button and software functions to register and edit load or production parameters according to machine configuration and equipment profile 3.3 Use the weight menu to set-up or edit the weight factors and default volumes of a maximum full load for specific tree assortments 3.4 Use work mode display and system messages to view information about loading and standard machine operation according to load parameters and machine configuration
4. Calibrate machine weight scale where fitted	4.1 Use calibration menu and methods to conduct regular reference calibration of Active Load Space pressure sensors to ensure accuracy of weighing measurements 4.2 Use calibration menu and methods to conduct regular dynamic and static reference calibration of the boom weight scale to ensure accuracy of weighing measurements 4.3 Regularly check and reset grapple to the 'zero point', by using reset button on the keyboard panel 4.4 Check the static calibration factor for possible changes in weight calibrations 4.5 Identify and report faults and errors related to the on-board computer system
5. Store, access and retrieve production data	5.1 Use software menu, sub-menus and display prompts to end production site file and save on a data storage device 5.2 Transfer files between computers or via mobile devices and applications

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	read user manual for machine's on-board computer system
Oral Communication	- interact verbally and non-verbally with technical personnel using communication means to remediate computer errors or resolve matters about electronic files and data - use appropriate vocabulary including technical language directly relevant to role
Numeracy	interpret file variables including weight factors and volumes of load
Navigate the world of work	understand main tasks, responsibilities and boundaries of own role
Interact with others	- use modes of communication suitable to purpose to confirm and clarify understanding - communicate and report operational task and safety information to relevant personnel - participate in conversations relevant to role by responding and explaining as required
Get the work done	- recognise and respond to routine problems - plan and organise own work activities and resources

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPHAR3222 Use on-board computer systems for forwarder Release 2	FWPHAR3222 Use on-board computer systems for forwarder Release 1	Minor changes in text providing clarification without changing the requirements of the unit	Equivalent unit

Links

Companion Volume implementation guides are found in VETNet -

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

Assessment Requirements for FWPHAR3222 Use on-board computer systems for forwarder

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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:

- created an active site file for loading operation
- registered load and production information at start of loading operation
- set-up and/or edited the weight factors and default volume settings
- used software settings and calibration methods to conduct accurate calibrations of the weight scale and sensors where fitted
- edited parameter values for machine movements
- ended production and saved and transferred file for the production site by using a data storage system or email or 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:

- components of wireless weighing system and its mode of operation where fitted
- software and files used with on-board computers including basic features and applications
- navigating on-board computer menus, sub-menus and fields
- fields and data inputs required to start the loading operation
- setting-up and editing the weight factors and default volumes of a maximum load for a variety of tree assortments
- settings and methods for editing parameter values for machine movements
- methods to calibrate the weighing system and improve accuracy of measurements
- factors that affect accuracy of the weighing measurement
- ending production and saving and transferring files using a data storage system or mobile app

- methods to identify faults related to the on-board computer system and global positioning system (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:
 - forwarder equipped with on-board computer and weighing system
 - 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 the on-board computer system

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

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