



Australian Government

FWPFRM5009 Create cutting instruction files for forestry harvesters

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP Forest and Wood Products Training Package Version 7.0.

Application

This unit of competency describes the skills and knowledge required to create cutting instructions, which are also known as bucking instructions or APT files, for forestry harvesters. This unit includes sourcing and collecting data sets for use in creating cutting instructions, using a software package to create cutting instructions for forestry harvesters, trialling and editing cutting instructions and transmitting cutting instructions to end-users.

The unit applies to individuals who work as foresters, wood flow coordinators or value recovery coordinators in mechanised harvesting operations in a forest or plantation setting.

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

Pre-requisite Unit

Nil

Unit Sector

Forest Resource Management (FRM)

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. Prepare for work	1.1 Confirm availability of computer hardware and software required to create cutting instruction files for forestry harvesters 1.2 Check software, hardware and internet access for serviceability 1.3 Confirm functionality of antivirus software and procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
2. Source and collect data sets	2.1 Source data sets required for the creation of cutting instructions according to software developer specifications and workplace procedures 2.2 Confirm accuracy and format of data sets according to workplace procedures
3. Use software package to create cutting instruction files	3.1 Open software from a laptop computer, personal computer or network terminal and use menus and tools to find the option for creating new cutting instructions 3.2 Use operator manual and online help function to locate details of software features and instructions for use 3.3 Open cutting instructions template for the relevant harvester, and check the version type according to software developer instructions 3.4 Create, name and save new cutting instructions file according to software developer instructions and workplace procedures 3.5 Create value/product matrix according to software developer instructions and workplace procedures 3.6 Enter value and product information and product limitation data according to software developer instructions and workplace procedures 3.7 Enter site details, including site location, harvesting contractor and site crew, according to software developer instructions and workplace procedures 3.8 Save cutting instructions file according to software developer instructions and workplace procedures 3.9 Perform routine checks to ensure accuracy of data and data entry in accordance with workplace procedures
4. Trial and edit cutting instructions	4.1 Establish trial method, objectives and processes according to workplace procedures 4.2 Brief personnel involved in trial and evaluation of draft cutting instructions on their responsibilities and functions according to workplace procedures 4.3 Trial draft cutting instructions and capture and record results according to workplace procedures 4.4 Evaluate trial results and edit cutting instructions according to outcomes of trial and workplace procedures

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
5. Transmit cutting instructions to end-users	5.1 Disseminate cutting instructions to end-users according to workplace procedures 5.2 Evaluate feedback on cutting instructions from users, respond to issues and problems consistent with own scope of responsibility, and record potential improvements to cutting instructions according to workplace procedures

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 operating procedures, online help and/or software developer instructions
Writing	Use routine text and technical terms in production of documents and reports on trialling of cutting instructions
Oral communication	Ask questions to clarify data requirements and data accuracy
Numeracy	Interpret numerical and graphical information used in software program

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPFRM5009 Create cutting instruction files for forestry harvesters	Not applicable	The unit has been created to address a skill or task required by industry that is not covered by an existing unit	Newly created

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

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

Assessment Requirements for FWPFRM5009 Create cutting instruction files for forestry harvesters

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Performance Evidence

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

There must be evidence that , on two occasions, the individual has created two sets of cutting instructions.

In performing this work,undertaking this activity, the individual has:

- collected relevant data sets for the two sets of cutting instructions
- used a software program to create cutting instructions for a forestry harvester for:
 - onea single assortment of log product
 - onea multiple assortment of log products
- trialled both sets of cutting instructions
- evaluated trial results and edited cutting instructions according to outcomes of trial
- disseminated both sets of cutting instructions to relevant end-users
- evaluated feedback on cutting instructions from users, responded to issues and problems consistent with own scope of responsibility, and recorded potential improvements to cutting instructions.

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:

- Standard for Forest Machine Data and Communication (StanForD) data standards, machine types and their capability
- data sets:
 - log specifications
 - product value
 - machine type
- product limitations:
 - small end diameter (SED)

- large end diameter (LED)
- stem length
- overcuts
- principles of value and value recovery in timber harvesting
- StanForD harvester standards and files
- purpose of cutting instructions or bucking files (APT files)
- software used to create cutting instructions
- different approaches to bucking:
 - profit-based bucking
 - demand bucking
- sources of data sets required for creation of cutting instructions:
 - log specifications manual
 - company data on log pricing
 - company protocols for naming conventions
 - forest operation plan for site details
- methods for confirming accuracy and format of data required for creation of cutting instructions
- methods of opening cutting instructions template for the relevant harvester and checking the version type
- reasons for selecting correct cutting instructions template for harvester
- methods for naming and saving cutting instructions
- value/product matrix:
 - methods for creating
 - methods for entering data
- procedures for trialling and editing draft cutting instructions
- reasons for trialling cutting instructions
- reasons and procedures for using simulation software in trialling cutting lists
- procedures for transmitting cutting instructions to end-users
- terminology associated with software package
- file and record maintenance procedures
- antivirus software procedures.

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 real or simulated forestry work environmentforest work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - computer software for creating cutting instructions for harvester

- computer hardware
- internet access
- data sets required for creation of cutting instructions
- specifications:
 - workplace policies and procedures applicable to using computer software and hardware
 - production plan
 - workplace safe operating procedures for using computer software and hardware
 - user manual for computer software and hardware.

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

Links

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