



Australian Government

FWPFRM5010 Plan unmanned aerial vehicle (UAV) collection of forestry data

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 plan unmanned aerial vehicle (UAV) collection of forestry data. This includes preparing for UAV data collection, interpreting user requirements or specifications for spatial and environmental data collection, identifying the UAV platform and sensors required for the data collection task, and preparing a data collection plan.

The unit applies to individuals whose work involves planning UAV collection of forestry data 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 UAV collection of forestry data	1.1 Review work order, workplace health and safety, environmental protection and emergency procedures to determine job requirements and, where required, seek clarification from appropriate personnel 1.2 Identify and report hazards according to workplace health and safety requirements to maintain safe work practices

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.3 Consult with appropriate personnel to ensure that work is coordinated effectively with others in the workplace 1.4 Confirm that planned forestry data collection activities comply with legislative, regulatory and workplace requirements
2. Plan UAV collection of forestry data	2.1 Locate, read and interpret user requirements or specifications for spatial and environmental data collection 2.2 Determine type and payload of UAV platform best suited to data collection task 2.3 Determine type and specification of sensors required for forestry data collection task 2.4 Determine ground control station (GCS) configuration according to manufacturer instructions and workplace procedures 2.5 Identify appropriate file formats 2.6 Establish time, frequency, location and optimal conditions for forestry data collection task 2.7 Plan flight path that meets data collection, regulatory and safety requirements 2.8 Implement protocols to ensure that forestry data collection activities meet privacy and data security regulations
3. Optimise UAV collection of forestry data	3.1 Identify and provide ways of overcoming potential delays and setbacks in UAV data collection 3.2 Plan workflow for managing UAV forestry data collection according to workplace procedures 3.3 Document forestry data collection plan 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
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Skill	Description
Reading	• Read complex text in print and electronic format
Writing	• Complete complex forms using routine and non-routine text
Oral communication	• Ask questions to clarify instructions, feedback or information
Numeracy	• Recognise metric units of measurement • Perform routine mathematical calculations related to time, speed, weight, volume and distance • Interpret graphical information related to time, speed, weight, volume and distance

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
FWPFRM5010 Plan unmanned aerial vehicle (UAV) collection of forestry data	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>