

Modification history

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0.

AHCLPW2XX	Operate a handheld GPS device
Application	<p>This unit of competency describes the skills and knowledge required to operate a handheld GPS device, including tablet and phone based GPS systems and record and use spatial information relating to points, tracks and routes.</p> <p>The unit applies to individuals who work under general supervision and exercise limited autonomy with some accountability for own work. This includes undertaking defined activities and work in a structured context.</p> <p>No licensing, legislative or certification requirements apply to this unit at the time of publication.</p>
Prerequisite Unit	Nil
Unit Sector	Lands Parks and Wildlife (LPW)

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. Plan GPS operations	1.1 Prepare equipment and materials for GPS operations 1.2 Identify key operational parameters, and adjust GPS device settings. 1.3 Source and upload support data to GPS device 1.4 Plan power supply strategy for field operations 1.5 Assist with the identification of fieldwork health and safety hazards and apply controls according to supervisor instructions and workplace procedures
2. Collect, use and store GPS information in the field	2.1 Establish accuracy of device for current position 2.2 Clear GPS logs to establish starting point for temporal data sequence 2.3 Operate hand held device to perform basic functions and record spatial and temporal data 2.4 Manage power supply for portable devices for field operations
3. Use basic software to retrieve, manipulate, display and store GPS data	3.1 Select software required for GPS data manipulation 3.2 Upload/sync GPS data from hand held device 3.3 Sort and categorise data for storage according to workplace requirements 3.4 Manipulate and edit data and data sets according to software procedures 3.5 Create simple visual reports for data interpretation and display
4. Shut down, maintain and store hand held GPS equipment	4.1 Turn off GPS device and prepare for storage 4.2 Record GPS use and identified faults according to workplace procedures 4.3 Clean and store GPS device

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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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Commented [RB1]: To be completed on finalisation of Performance Criteria

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCLPW2XX Operate a handheld GPS device	New Unit	New	No equivalent unit

Links

Companion Volumes, including Implementation Guides, are available at VETNet:
<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

TITLE	Assessment requirements for AHCLPW2XX Operate a handheld GPS device
Performance Evidence	
<p>An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.</p> <ul style="list-style-type: none"> • operate handheld GPS units and software-based GPS on handheld portable devices. • navigate settings on the GPS/tablet to change datum, coordinate system and units • adjust display parameters to suit operating conditions • manage power supply for portable devices • identify and follow workplace health and safety procedures for fieldwork and report unsafe situations to your supervisor • collect, use and store GPS information in the field, including: <ul style="list-style-type: none"> • record and label points • record and label tracks • navigate to points • create a route using recorded waypoints • navigate a route • use basic software to retrieve, manipulate, display and store GPS data, including: <ul style="list-style-type: none"> • edit symbols, labels and names • add notes and other information • create routes from waypoints and tracks • create and edit files and datasets of spatial information • use data to modify/update support dataset for future work • use software to create simple visual reports for data interpretation and display • decommission and store GPS equipment, including: <ul style="list-style-type: none"> • update retained dataset on device and check labels/names • remove temporary and superfluous data from the device • restore setting as per workplace standards • remove batteries. 	
Knowledge Evidence	
<p>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:</p> <ul style="list-style-type: none"> • basic GPS function, principles and limitations of the technology • a range of portable GPS devices • a range of supporting devices and software, including: <ul style="list-style-type: none"> • chargers and power banks • laptops and tablets • memory cards • mapping and reporting software, including stand-alone and web-based applications • operational parameters, including: <ul style="list-style-type: none"> • datum • coordinate system • units • naming protocols • sources of error in GPS • enterprise procedures and practice for GPS operations 	
Assessment Conditions	
<p>Assessment of skills must take place under the following conditions:</p> <ul style="list-style-type: none"> • physical conditions: <ul style="list-style-type: none"> • skills must be demonstrated in the field or an environment that accurately represents workplace conditions 	

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Assessment Conditions

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| <ul style="list-style-type: none">• resources, equipment and materials:<ul style="list-style-type: none">• handheld GPS device, phone or tablet with GPS capability• software for using a GPS and manipulating data• specifications:<ul style="list-style-type: none">• use of workplace procedures for use, storage and data management of hand held GPS device |
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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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