



Australian Government

AHCARB405 Perform geospatial data collection

Release: 1

AHCARB405 Perform geospatial data collection

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to perform geospatial data collection required for tree plans and drawings.

This unit applies to individuals who supervise others and provide and communicate solutions to a range of predictable and sometimes unpredictable problems. Work is implemented with low risk work procedures and to comply with Safe Work Method documentation.

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

Pre-requisite Unit

Nil.

Unit Sector

Arboriculture (ARB)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Determine functionality requirements	1.1 Determine technical and business requirements for geospatial data collection 1.2 Determine suitability and requirements of using geographical information system (GIS) 1.3 Determine suitability of software application for intended purpose 1.4 Consider features of remote positioning and satellite shadow reduction 1.5 Consider end-to-end capability as required 1.6 Determine asset management requirements for GIS data

Element	Performance criteria
	1.7 Consider functional ease-of-use, mobility and reliability 1.8 Evaluate future-proofed solutions and outcomes 1.9 Select geospatial data collection equipment
2. Set up device	2.1 Complete relevant start-up procedures 2.2 Determine operational data fields 2.3 Determine data tables and associated attributes 2.4 Configure fields for operational use
3. Collect and enter data	3.1 Undertake functional testing of hand held device for connectivity 3.2 Use global positioning system (GPS) to supply co-ordinate data 3.3 Use latitude and longitude co-ordinates to locate designated trees 3.4 Correct co-ordinate data at tree site visually as required 3.5 Update and correct tree attribute data as required 3.6 Collect and enter data
4. Process and analyse data	4.1 Check data for accuracy for post-processing 4.2 Download GIS data 4.3 Process GIS data 4.4 Analyse data with appropriate techniques

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

New unit - no equivalent.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>