



Australian Government

AHCARB608 Interpret diagnostic test results

Release: 1

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Modification History

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

Application

This unit of competency describes the skills and knowledge required to interpret diagnostic test results and evaluate and critique the testing methods and results. It requires knowledge and application of tree anatomy, physiology, pathology, tree dynamics and edaphic environment with substantial depth of understanding of diagnostics methods and analysis.

The unit applies to individuals with broad theoretical and technical knowledge of tree diagnostics. They have a broad range of cognitive, technical and communication skills and demonstrate autonomy and judgement for a defined area of responsibility, undertaking complex work with broad parameters to provide specialist advice and functions.

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

Pre-requisite Unit

Nil

Unit Sector

Arboriculture (ARB)

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. Compile diagnostic tool knowledge requirements	1.1 Compile a portfolio of sample reports of diagnostic test results 1.2 Compile peer reviewed papers on the use of each diagnostic tool 1.3 Review the diagnostic tool specifications and user manuals 1.4 Research output ranges for each diagnostic tool

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.5 Identify key thresholds and benchmarks for diagnostic test outputs 1.6 Determine suitability of tool selection for purpose of test
2. Analyse the data and testing methods	2.1 Identify and evaluate testing methods used 2.2 Assess relevance, benefits and limitations of methodology 2.3 Determine assumptions used in formulating testing method 2.4 Determine veracity of equipment, software and systems used for test 2.5 Access raw data and testing evidence for test results 2.6 Verify data relevance and accuracy against standard industry test procedures 2.7 Review report and identify discrepancies against industry testing procedures and testing standards 2.8 Record discrepancies according to workplace procedures
3. Evaluate and critique test results	3.1 Assess the suitability of the testing process as fit for purpose 3.2 Analyse the test results against benchmarks 3.3 Reconcile analysis with original interpretation and account for anomalies 3.4 Determine the validity of outcomes of original report 3.5 Develop substantiated positions to inform critical analysis of test results 3.6 Determine further testing required to verify results
4. Document the critique	4.1 Compile analysis of test method and results 4.2 Review the completeness and accuracy of the analysis 4.3 Record analysis outcomes and rationale 4.4 Document the analytical processes 4.5 Provide alternative analysis and conclusion 4.6 Document critique in a report 4.7 Present report according to agreed format and timelines

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	Interpret and critique complex texts relating to testing procedures and test results to gather information for analysis
Writing	Create logical, succinct and accurate documents that express views and ideas from analysis of test results
Numeracy	Manipulate and calculate numerical information and data from test results to assess and verify accuracy

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCARB608 Interpret diagnostic test results	AHCARB603 Interpret diagnostic test results	Performance criteria clarified Foundation skills added Assessment requirements updated	Equivalent

Links

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