



Australian Government

AHCARB808 Contextualise diagnostic tests

Release: 1

AHCARB808 Contextualise diagnostic tests

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 review diagnostic testing models, analyse their performance, contextualise the test for a range of tree domains and execute a diagnostic test project.

The unit applies to individuals with highly specialised advanced theoretical and technical knowledge for professional work and research in arboriculture. They exercise advanced cognitive, technical and communication skills and demonstrate complete autonomy, judgement and adaptability in research and analysis for complex problems.

No licensing, legislative or certification requirements are 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. Research diagnostic testing principles and processes	1.1 Conduct a literature review on tree-related research and diagnostic test case studies 1.2 Operate diagnostic testing equipment to industry and manufacturer standards 1.3 Interpret underpinning scientific principles of test processes 1.4 Determine diagnostic assumptions and limitations of testing

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	process for selected diagnostic tool
2. Analyse requirements and calibration processes	2.1 Analyse quantification, variance and tolerance requirements for selected diagnostic tools 2.2 Investigate and verify calibration baselines for diagnostic equipment 2.3 Verify calibration processes have been performed on diagnostic equipment according to verified baselines
3. Determine project parameters and execute a diagnostic test project	3.1 Select testing processes for primary tree domains 3.2 Select diagnostic tools for each domain and contextualise the testing process 3.3 Define research method to be used 3.4 Conduct a literature review for current research and science of each primary domain 3.5 Establish efficacy of test for each primary domain 3.6 Conduct a diagnostic test project
4. Interpret testing results	4.1 Analyse test results for performance metrics of each of the selected diagnostic tools 4.2 Interpret results against benchmark and anticipated ranges 4.3 Confirm predictive responses in terms of pre-treatment results to projected post-treatment outcomes 4.4 Articulate meaning of results within context of primary domain
5. Provide prognosis and prepare management plans	5.1 Provide an informed prognosis 5.2 Research management options and lag time 5.3 Prepare a report that documents management plans

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	Compare and contrast technical specifications and procedures for diagnostic tests from case studies to analyse and formulate views and opinions
Numeracy	Perform complex analytical calculations for testing and evaluating the accuracy and tolerances of diagnostic tests and to establish baselines and calibration requirements for testing and equipment

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCARB808 Contextualise diagnostic tests	AHCARB801 Contextualise diagnostic tests	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>