



Australian Government

AHCARB801 Contextualise diagnostic tests

Release: 1

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Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to contextualise diagnostic testing and execute a diagnostic test project.

This unit applies to individuals with advanced theoretical and technical knowledge and skills for professional or highly skilled work and/or further learning in one or more disciplines or areas of practice. This unit applies to individuals with advanced cognitive, technical and communication skills to provide specialist advice, analyse, generate and transmit solutions to complex problems, and to demonstrate autonomy, well-developed judgement, adaptability and responsibility as a practitioner or learner.

The role involves the self-directed application of knowledge in tree anatomy, physiology, pathology, tree dynamics and the edaphic environment with substantial depth in areas such as diagnostic tool application methods and analysis of diagnostic test results.

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. Research diagnostic testing principles and processes	1.1 Research peer-reviewed documentation and relevant case studies 1.2 Develop competency in correct and functional operation of diagnostic testing equipment

Element	Performance criteria
	1.3 Interpret underpinning scientific principles of test processes 1.4 Determine diagnostic assumptions and limitations of testing process for selected diagnostic tool
2. Analyse requirements and calibrate processes	2.1 Analyse quantification, variance and tolerance requirements for selected diagnostic tool 2.2 Research calibration baselines and seek verification where required 2.3 Verify appropriate calibration processes have been performed
3. Determine project parameters and execute a diagnostic test project	3.1 Select one or more appropriate testing processes for each of the primary domains: tree anatomy, physiology, pathology, tree dynamics and the edaphic environment 3.2 Contextualise testing for each domain with appropriate selection of diagnostic tools 3.3 Define scientific research method using a basis of hypothesis testing, measurement of functional relationships, and observational research as required 3.4 Investigate scientific literature resources referenced by current science of each primary domain 3.5 Describe efficacy of test in terms of primary domain 3.6 Conceive and execute a diagnostic test project
4. Interpret testing results	4.1 Express testing results in performance metrics for each of the selected diagnostic tools 4.2 Interpret results against normal 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 document management plans	5.1 Provide an informed prognosis 5.2 Research management options and lag time 5.3 Formulate a report that documents management plans

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>