

Prerequisite competency completion		
Not applicable. There are no prerequisite requirements.		
Required reports completion		
Has the candidate successfully completed the required reports ?	Yes/No (Y/N)	Signed (Initialled)
Diagnostic test project		
Diagnostic test project management plan		
Mandatory Equipment (as a minimum)		
Has each of the mandatory equipment items been used to gather evidence for assessment?	Yes/No (Y/N)	Signed (Initialled)
computer		
word processing software		
statistical software		
internet connection		
diagnostic tools selected for testing		
Knowledge Evidence		
Has the candidate successfully completed the Knowledge Evidence requirements by demonstrating knowledge of each of the line items below?	Yes/No (Y/N)	Signed (Initialled)
peer reviewed documentation and case studies		
correct, functional operation of diagnostic testing equipment		
underpinning scientific principles behind the test processes		
physical and other limits of the testing process		
diagnostic assumptions and limitations of the test process and the tool		
quantification		
variance		
tolerance		
baselines		
calibration processes		
tree anatomy		
tree physiology		

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tree pathology		
tree dynamics		
the edaphic environment of trees		
research methods		
hypothesis testing		
measurement of functional relationships		
verifying efficacy of a test		
performance metrics		
normal anticipated ranges of test result		
scientific research methods		
scientific literature		
diagnostic test projects and processes		
the contextual meaning of tests results		
prognostics/prognosis		
management of diagnostic outcomes		
management plans		
monitoring management plans		
diagnostic testing terminology		
Performance evidence		
Has the candidate successfully demonstrated the Performance Evidence requirements of the unit of competency AHCARB801 Contextualise diagnostic tests, and as per listed line items below?	Yes/No (Y/N)	Signed (Initialled)
researching peer reviewed documentation and relevant case studies		
developing competency in correct, functional operation of diagnostic testing equipment		
interpreting the underpinning scientific principles of test processes		
describing the physical and other limits of the testing process		
determining the diagnostic assumptions and limitations of the testing process for the selected diagnostic tool		
analysing quantification, variance and tolerance requirements		
researching calibration baselines and seeking verification where required		
verifying appropriate calibration processes have been performed		
selecting one or more appropriate testing processes for each of the primary domains of tree anatomy, physiology, pathology, tree dynamics and the edaphic environment		

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contextualising testing for each domain with appropriate selection of diagnostic tools		
defining scientific research method using a basis of hypothesis testing, the measurement of functional relationships, and observational research.		
investigating and determine scientific literature resources referenced by the science of each primary domain		
describing the efficacy of the test in terms of the primary domain		
conceiving and executing a diagnostic test project		
expressing results in performance metrics of selected diagnostic tools		
interpreting results against normal and anticipated ranges		
confirming predictive responses in terms of post-treatment to pre-treatment results		
articulating meaning of results within context of primary domain		
providing an informed prognosis		
researching management options and lag time		
documenting management plans into report		
monitoring management plans and modify or refine as needed		
use of industry standard terminology to describe arboricultural diagnostic testing processes		
Assessment conditions		
It is an industry requirement that competency in this unit requires the analysis of a minimum of five (5) different diagnostic test results; one in each of the primary domains of tree anatomy, physiology, pathology, tree dynamics and the edaphic environment.		
Have the assessments incorporated the assessment conditions and met the industry requirements for competency in this unit as per listed line items below?	Yes/No (Y/N)	Signed (Initialed)
Has the assessment confirmed the analysis of a minimum of five (5) different diagnostic test results; one in each of the primary domains of tree anatomy, physiology, pathology, tree dynamics and the edaphic environment?		
Assessment may be conducted in a simulated or real work environment; however, determination of competency requires the application of work practices under work conditions.		
Have assessments been demonstrated consistently over time?		
Have assessments been demonstrated in a suitable range of contexts?		

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Have assessments been demonstrated with a productivity-based outcome?			
Have assessments been demonstrated with multiple assessment events and reports?			
Assessor Declaration			
Assessors must satisfy current standards for RTOs in the assessment of arboriculture units of competency.		Yes/No (Y/N)	Signed (Initialled)
Has assessment been conducted only by persons who have:			
<ul style="list-style-type: none"> • arboriculture vocational competencies at least to the level being assessed? 			
<ul style="list-style-type: none"> • current arboriculture industry skills directly relevant to the unit of competency being assessed? 			
Assessor name	Assessor qualification	Year	Full Signature
Competency Determination			
This section determines the skills and knowledge required to contextualise diagnostic testing and execute diagnostic test projects.			Competent /Not yet competent
The candidate is competent in contextualising diagnostic tests.			
Competency Assessment Completion			
Assessor name	Date	Full Signature	

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