

Not applicable. There are no prerequisite requirements.		
Required reports completion		
Has the candidate successfully completed the required reports?	Yes/No (Y/N)	Signed (Initialled)
Disease management plan		
Disease reference collection		
Glossary of disease terminology		
Disease profile form		
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		
internet connection		
digital camera with macro		
diagnostic tools including sounding hammer, trowel, probe, cordless drill		
soil testing equipment		
basic digital dissection microscope 10–100x		
compound microscope		
microtome, staining and slide mounting equipment		
slides and coverslips		
temporary/permanent mountant		
histochemical stains		
trees without diseases		
trees with biotic diseases		
trees with abiotic diseases		
suitable cross-sections of defects and diseases		
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)





















Diseases	
examination of signs and symptoms	
disease symptoms and signs:	
– effect of disease on trees	
– assessment of dead tips	
– assessment of excessive numbers of dead branches	
 examination of roots, root crown, stem, branches and canopy for signs of biotic disease 	
examination of roots, root crown, stem, branches and canopy for signs of abiotic disease	
recognising and recording wounds to the tree	
accepted nomenclature of diseases	
identification of signs and symptoms of tree health problems	
disease theory	
pathology:	
- tree pathology	
– tree diseases	
causes of instability, decay, damage and stress in trees	
diagnoses of tree problems	
disease detection	
disease detection methods	
methods of detecting decay and structural defects in trees	
testing equipment to detect decay, disease and scope of tree problems	
preparation of specimens of microbiotic diseases for microscopic examination	
requirements for specialist diagnosis or laboratory testing	
disease classification	
disease groups	
disease classification guides	
taxonomic identification	
phenology:	
– life cycle stages	
– phenology of the host and the disease	
severity:	
– severity of the disease	
– severity of the disease– extent of the disease	





















patterns of host – disease interaction for each major disease type		
influences of environmental conditions on host and disease		
disease management		
prognosis:		
– providing an informed prognosis in writing and verbally		
– methods of providing a reasoned prognosis		
disease management programs		
Integrated Pest Management strategy:		
 chemical, cultural and biological control methods as part of an Integrated Pest Management strategy 		
influences of environmental conditions on management options		
lag time of management options		
monitoring and modification of management plans		
disease treatment		
research tree health problems, diagnoses and remedial treatments		
chemical use		
toxicity and compatibility with target trees		
toxicity and compatibility with environmental characteristics of the horticultural region		
report writing		
industry standard terminology		
compiling a disease reference collection		
disease attributes in relation to tree anatomy, physiology, pathology and taxonomy		
documentation of tree diseases and management programs		
glossary of disease terminology		
Performance evidence		
Has the candidate successfully demonstrated the Performance Evidence requirements of the unit of competency AHCARB602 Diagnose tree diseases, and as per listed line items below?	Yes/No (Y/N)	Signed (Initialled)
identifying the tree and determining its region of origin		
determining seasonal growth stages of the tree		
ascertaining current and past cultural practices		
determining characteristics of the growing environment affecting the growth of a specific tree species		
identifying environmental and cultural factors that predispose the tree to disease		
determining and assessing the relevant physical and chemical properties of the soil or growing media		





















determining impact of disease type on tree parts and systems	
use of industry standard terminology to describe disease aspects of tree anatomy, physiology, pathology and taxonomy	
developing a glossary of disease terminology	
considering natural defence systems of trees against major disease types	
determining disease groups according to a disease classification guide	
interpreting signs and symptoms of disease to identify which trees are diseased	
recording symptoms and signs of disease using accepted nomenclature	
collating samples and evidence into a reference collection	
determining disease type according to a disease classification guide	
determining identification of macrobiotic disease to family level	
preparing specimens for microscopic examination of microbiotic diseases	
collecting, package and dispatch specimens for specialist diagnosis or laboratory testing where required	
determining current health and energy reserves of the tree	
assessing severity and extent of the disease	
researching virulence of the disease on the specific host	
determining phenology of the host and the disease	
researching and considering lag time of management options	
considering influences of environmental conditions on host, disease and management options	
providing an informed prognosis in writing and verbally	
researching management options such as Integrated Pest Management (IPM) and recommending appropriate options	
developing a disease management program within IPM guidelines	
recording and documenting tree diseases and management programs in a report	
monitoring management plans and modifying or refining as needed	
compiling a disease reference collection	
use of industry standard terminology to describe disease aspects of tree anatomy, physiology, pathology and taxonomy	





















Assessment conditions

It is an industry requirement for competency that assessment of the disease reference collection incorporates a minimum of **sixty (60)** diseases, including biotic and abiotic diseases, from a variety of kingdoms, orders and families.

The collection may be digital and/or physical, correctly labelled and containing the information listed in the AQF 5B Disease profile sheet, including a minimum of **one (1)** image of the disease taken by the candidate. Candidates must record the

- location,
- date that the image was taken, and
- the host tree species,

and images must provide sufficient quality of information to aid in disease identification.

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 (Initialled)
Have the assessments incorporated a minimum of sixty (60) disease profiles to be completed?		
Have the assessments confirmed that the disease reference collection contains biotic and abiotic diseases from a variety of kingdoms, orders and families?		
Have the assessments confirmed a minimum of one (1) image of the disease taken by the candidate recording the location, date that the image was taken, and the host tree species,		
with sufficient quality of information to aid in disease identification?		

The candidate must be observed diagnosing and recording diseases of trees, and developing, monitoring and documenting a report on a tree disease management plan.

Has the candidate met the performance requirements as per listed line items below?	Yes/No (Y/N)	Signed (Initialled)
Has the candidate been observed diagnosing and recording diseases of trees for the purposes of the assessment?		
Has the candidate been observed developing, monitoring and documenting a report on a tree disease management plan?		
Assessment may be conducted in a simulated or real work environment; however, determination of competency requires the application of work practices under work conditions.	Yes/No (Y/N)	Signed (Initialled)
Have assessments been demonstrated consistently over time?		
Have assessments been demonstrated in a suitable range of contexts?		
Have assessments been demonstrated with a productivity-based outcome?		





















Have assessments been events and reports?	demonstrate	ed with multiple assessment				
Assessor Declaration						
Assessors must satisfy current standards for RTOs in the assessment of arboriculture units of competency. Has assessment been conducted only by persons who have:			Yes/No (Y/N)	Signed (Initialled)		
	ocational con	npetencies at least to the lev	vel			
current arboricularit of compete		ry skills directly relevant to t sessed?	the			
Assessor name	Assessor qu	alification	Year	Full Signature		
Competency Determina	ition					
This section determines the skills and knowledge required to diagnose tree diseases including diseases of palms and other woody monocotyledons.			Competent /Not yet competent			
The candidate is compe	_	osing tree diseases including	g diseases of			
Competency Assessmen	nt Completio	n				
Assessor nam	e	Date	F	Full Signature		

















