

<b>Prerequisite competency completion</b>		
Not applicable. There are no prerequisite requirements.		
<b>Required reports completion</b>		
Has the candidate successfully completed the <b>required reports</b> ?	<b>Yes/No (Y/N)</b>	<b>Signed (Initialled)</b>
Urban forest report		
<b>Mandatory Equipment (as a minimum)</b>		
Has each of the mandatory equipment items been used to gather evidence for assessment?	<b>Yes/No (Y/N)</b>	<b>Signed (Initialled)</b>
computer		
word processing software		
statistical software		
internet connection		
measurement and data collection tools		
<b>Knowledge Evidence</b>		
Has the candidate successfully completed the <b>Knowledge Evidence</b> requirements by demonstrating knowledge of each of the line items below?	<b>Yes/No (Y/N)</b>	<b>Signed (Initialled)</b>
elemental components of urban forests		
role of urban forests as a primary component of urban ecosystems		
threats to and resilience of urban forests in cities		
regulation of hydrological processes, retention of precipitation, mitigation of salinity, and effects of trees on water quality		
relationship of soil biological network, soil chemistry, soil structure and trees to soil structure stabilisation and erosion potential		
contribution of trees towards rhizosphere biodiversity, bioremediation and soil health		
energy conservation and micro-climate modification systems of trees and urban forests		
heat island analyses of an urban area		
health, social and psychological benefits of urban forests		
current methods and technologies for spatial mapping of urban forests		
process of carbon sequestration in urban forests		
methods for sampling urban forests		

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urban forest valuation methodologies		
contribution of urban forest to carbon cycles		
local climate, soil factors and management factors affecting forest growth and sequestration		
contribution of forest carbon sequestration to mitigation of climate change		
evaluation of forest mitigation on climate change		
social, environmental, economic and climatic values of urban forests		
challenges of increased urbanisation and urban densification on urban forests		
potential benefit of urban forest to mitigate climate change		
multi-disciplinary solutions to challenges of urbanisation on urban forests		
<b>Performance evidence</b>		
Has the candidate successfully demonstrated the <b>Performance Evidence</b> requirements of the unit of competency AHCARB703 Research urban forest performance, and as per listed line items below?	<b>Yes/No (Y/N)</b>	<b>Signed (Initialled)</b>
researching and define elemental components of urban forests		
researching role of urban forests as a primary component of urban ecosystems		
researching threats to and resilience of urban forests in cities		
researching regulation of hydrological processes, retention of precipitation, mitigation of salinity, and effects of trees on water quality		
researching relationship of soil biological network, soil chemistry, soil structure and trees to soil structure stabilisation and erosion potential		
determining contribution of trees towards rhizosphere biodiversity, bioremediation and soil health		
researching energy conservation and micro-climate modification systems of trees and urban forests		
researching heat island analyses of an urban area		
evaluating health, social and psychological benefits of urban forests		
documenting evidence-based research into a preliminary report on benefits of urban forests		
researching current methods and technologies for spatial mapping of urban forests		
analysing process of carbon sequestration in urban forests		
analysing methods for sampling urban forests		
evaluating urban forest valuation methodologies		

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documenting a preliminary report on valuation of an urban forest			
researching contribution of urban forest to carbon cycles			
determining local climate, soil factors and management factors affecting forest growth and sequestration			
researching contribution of forest carbon sequestration to mitigation of climate change			
documenting an evaluation of forest mitigation on climate change			
documenting a report on the social, environmental, economic and climatic values of urban forests			
determining challenges of increased urbanisation and urban densification on urban forests			
determining potential benefit of urban forest to mitigate climate change			
compiling preliminary reports and documenting a report describing multi-disciplinary solutions to challenges of urbanisation on urban forests			
<b>Assessment conditions</b>			
Assessment may be conducted in a simulated or real work environment; however, determination of competency requires the application of work practices under work conditions.	<b>Yes/No (Y/N)</b>	<b>Signed (Initialled)</b>	
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 demonstrated with multiple assessment events and reports?			
<b>Assessor Declaration</b>			
<b>Assessors must satisfy current standards for RTOs in the assessment of arboriculture units of competency.</b>	<b>Yes/No (Y/N)</b>	<b>Signed (Initialled)</b>	
<b>Has assessment been conducted only by persons who have:</b>			
<ul style="list-style-type: none"> <li>• urban forestry vocational competencies at least to the level being assessed?</li> </ul>			
<ul style="list-style-type: none"> <li>• current urban forestry skills directly relevant to the unit of competency being assessed?</li> </ul>			
<b>Assessor name</b>	<b>Assessor qualification</b>	<b>Year</b>	<b>Full Signature</b>

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Competency Determination		
This section determines the skills and knowledge required to research urban forest performance.		<b>Competent /Not yet competent</b>
The candidate is competent in researching urban forest performance.		
Competency Assessment Completion		
Assessor name	Date	Full Signature

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