



Australian Government

AHCARB802 Develop an urban forest management framework

Release: 1

AHCARB802 Develop an urban forest management framework

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency describes the skills and knowledge required to develop an urban forest management framework incorporating the policy documentation and urban forest management planning.

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 forest asset management, tree inventory and data analysis.

No occupational licensing, legislative or certification requirements are known to apply to this unit at the time of publication.

Pre-requisite Unit

AHCARB703 Research urban forest performance

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. Establish performance metrics and analyse	1.1 Research models of urban forest management 1.2 Establish the key performance metrics and outcomes to be

Element	Performance criteria
resources	assessed incorporating specific parameters from the client brief 1.3 Determine the data sets to be collected required for objectives of managing the resources and needs of stakeholders 1.4 Analyse urban forest resources 1.5 Determine agents and conditions affecting urban forest health 1.6 Analyse species spatially in target geographic areas using geographical information systems (GIS) as required 1.7 Determine canopy density targets
2. Determine urban forest asset value	2.1 Determine outcomes in social, environmental, public health, economic, and aesthetic terms 2.2 Determine asset value of single tree and forest based on value criteria of client and relevant benchmarks 2.3 Perform cost-benefit analysis of forest assets 2.4 Analyse variation in asset value within relevant variables
3. Review policy documentation	3.1 Analyse and review relevant policy documents for meeting performance metrics and desired outcomes 3.2 Determine statutory, liability and risk issues requiring consideration 3.3 Identify stakeholder requirements and perceptions 3.4 Evaluate the extent of impact and outcomes of proposed policy documents 3.5 Create policy determinations on tree assets and record as reports 3.6 Create and document urban forest management policy
4. Develop and document management plan	4.1 Develop appropriate conceptual framework for urban forest management 4.2 Develop street tree master plans as required 4.3 Set vision and objective statements 4.4 Determine quantifiable goals 4.5 Use tree inventory and mapping data management software as required 4.6 Establish and maintain inventories and databases 4.7 Develop implementation and operational plans 4.8 Develop and document an urban forest management plan

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 unit.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCARB802 Develop an urban forest management framework

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence for and demonstrate:

- researching models of urban forest management
- establishing the key performance metrics and outcomes to be assessed incorporating specific parameters from the client brief
- determining the data sets to be collected required for objectives of managing the resources and needs of stakeholders
- analysing urban forest for resources
- determining agents and conditions affecting urban forest health
- analysing species spatially in target geographic areas using geographical information systems (GIS)
- determining canopy density targets
- determining outcomes in social, environmental, public health, economic, and aesthetic terms
- determining asset value of single tree and forest based on value criteria of client and relevant benchmarks
- performing cost-benefit analysis of forest assets
- analysing variation in asset value within relevant variables
- analysing and reviewing relevant policy documents for meeting performance metrics and desired outcomes
- determining statutory, liability and risk issues requiring consideration
- identifying stakeholder requirements and perceptions
- evaluating the extent of impact and outcomes of proposed policy documents
- creating policy determinations on tree assets and record as reports
- creating and document urban forest management policy
- developing appropriate conceptual framework for urban forest management
- determining the requirement for street tree master plans

- setting vision and objective statements
- determining quantifiable goals
- using tree inventory and mapping data management software as required
- establishing and maintain inventories and databases
- developing implementation and operational plans
- developing and document an urban forest management plan
- use of industry standard terminology to describe urban forest management.

Knowledge Evidence

The candidate must demonstrate knowledge of:

- models of urban forest management
- key performance metrics
- data sets
- urban forest resources analysis
- tree assets
- urban forest health
- spatial analysis of trees
- geographical information systems (GIS)
- canopy density targets
- outcomes in social, environmental, public health, economic, and aesthetic terms
- asset value of single tree
- asset value of forest
- value criteria
- relevant benchmarks
- cost-benefit analysis
- forest assets
- variation in asset value
- variables
- performance metrics
- stakeholder requirements and perceptions
- policy determinations
- urban forest management policy
- conceptual framework
- urban forest management
- street tree master plans
- vision statements
- statement of objectives
- quantifiable goals
- tree inventory
- mapping data
- mapping data management

- mapping data management software
- inventories and databases
- implementation plans
- operational plans
- urban forest management plans.

Assessment Conditions

Assessment must be demonstrated consistently over time in a suitable range of contexts and have a productivity-based outcome. No single assessment event or report is sufficient to achieve competency in this unit.

Assessment may be conducted in a simulated or real work environment, however determination of competency requires the application of work practices under work conditions.

The mandatory equipment and materials used to gather evidence for assessment include:

- equipment:
 - computer
 - word processing software
 - statistical software
 - internet connection
- materials:
 - urban forest management plan

Assessors must satisfy current standards for RTOs in the assessment of arboriculture units of competency.

Assessment must be conducted only by persons who have:

- urban forestry vocational competencies at least to the level being assessed
- current urban forestry skills directly relevant to the unit of competency being assessed

Links

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