



Australian Government

AHCARB809 Develop an urban forest management framework

Release: 1

AHCARB809 Develop an urban forest management framework

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0.

Application

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

The unit applies to individuals with highly specialised advanced theoretical and technical knowledge for professional work and research in arboriculture. They exercise advanced cognitive, technical and communication skills and demonstrate complete autonomy, judgement and adaptability in research and analysis for complex problems.

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

Pre-requisite Unit

The prerequisite unit of competency for this unit is:

- AHCARB806 Research urban forest performance.

Unit Sector

Arboriculture (ARB)

Elements and Performance Criteria

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Establish performance metrics and analyse resources	1.1 Investigate models of urban forest management 1.2 Establish key performance metrics and outcomes from client brief 1.3 Determine the data sets required for objectives of managing resources according to stakeholder needs

Elements	Performance Criteria
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
	1.4 Analyse urban forest resources 1.5 Determine agents and conditions affecting urban forest health 1.6 Analyse species spatial geography using geographical information systems (GIS) 1.7 Determine canopy density targets
2. Determine urban forest asset value	2.1 Determine objectives and outcomes of urban forest for the community 2.2 Determine asset value of trees and forest according to client brief and industry benchmarks 2.3 Perform cost-benefit analysis of forest assets 2.4 Analyse variation in asset value
3. Review policy documentation	3.1 Analyse and review urban forest policy documents for performance metrics and desired outcomes 3.2 Determine statutory, liability and risk issues affecting urban forests 3.3 Identify stakeholder requirements and perceptions 3.4 Evaluate extent of impact and outcomes of proposed policy documents 3.5 Record and report policy determinations on tree assets 3.6 Document an urban forest management policy
4. Develop and document management plan	4.1 Develop a conceptual framework for urban forest management 4.2 Develop street tree master plans according to client brief 4.3 Set vision and objective statements 4.4 Determine quantifiable goals 4.5 Establish and maintain inventories and databases according to client brief 4.6 Develop implementation and operational plans 4.7 Develop and document an urban forest management plan

Foundation Skills

This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria.

Skill	Description
Reading	Identify and interpret information from complex texts, reports, maps and plans, including legislation and regulations, policies and procedures, to formulate strategies for the development of urban forest management plans
Writing	Create detailed planning documents that include selecting appropriate conventions and stylistic devices to convey precise meaning to the target audience

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
AHCARB809 Develop an urban forest management framework	AHCARB802 Develop an urban forest management framework	Performance criteria clarified Foundation skills added Assessment requirements updated	Equivalent

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCARB809 Develop an urban forest management framework

Modification History

Release	Comments
Release 1	This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 5.0.

Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.

There must be evidence that the individual has developed an urban forest management framework for a specified geographic location, including:

- investigated models of urban forest management
- established key performance metrics and outcomes from client brief
- determined data sets required for objectives of managing the resources according to stakeholder needs
- analysed urban forest for resources
- determined agents and conditions affecting urban forest health
- analysed species spatial geography using geographical information systems (GIS)
- determined canopy density targets
- determined objectives and outcomes of urban forest to community
- determined asset value of trees and forest according to client brief and industry benchmarks
- performed cost-benefit analysis of forest assets
- analysed variation in asset value within variables
- analysed and reviewed policy documents for meeting performance metrics and desired outcomes
- determined statutory, liability and risk affecting urban forests
- identified stakeholder requirements and perceptions
- evaluated extent of impact and outcomes of proposed policy documents
- recorded and reported policy determinations on tree assets
- documented an urban forest management policy
- developed a conceptual framework for urban forest management
- determined requirements for street tree master plans according to client brief
- set vision and objective statements
- determined quantifiable goals

- established and maintained inventories and databases according to client brief
- developed implementation and operational plans
- developed and documented an urban forest management plan.

Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- urban forests and their benefits to community, including:
 - models of urban forest management
 - objectives, outcomes and performance metrics of urban forests
 - maintaining urban forest health
 - tree anatomy, physiology, pathology, tree dynamics and edaphic environment in relation to urban forest management
 - urban forest as a resource
- quantifying the urban forest as an asset, including:
 - measuring and data sets
 - spatial analysis of trees and forests, and the use of geographical information systems (GIS)
 - canopy density targets
 - asset value of single tree
 - asset value of forest
 - value criteria
 - relevant benchmarks
 - cost-benefit analysis
 - competing views of forest values
- community objectives and outcomes of urban forests, including:
 - social
 - environmental
 - public health
 - economic
 - aesthetic terms
- measuring the performance of urban forests, including:
 - performance metrics
 - stakeholder requirements and perceptions
- design and development of urban forest policies and management plans, including:
 - conceptual framework of managing urban forests
 - street tree master plans
 - vision statements and their role in management plans
 - setting and documenting achievable and quantifiable goals and objectives
- maintaining accurate and accessible tree inventories, including:

- mapping and managing data
- data management software
- inventories and databases
- setting and planning the implementation of management plans, including:
 - urban forest operational plans
 - the urban forest management plans.

Assessment Conditions

Assessment of the skills in this unit of competency must take place under the following conditions:

- physical conditions:
 - an urban community with trees and forests or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - computer with word processing software
- specifications:
 - standard procedures and quality standards for developing urban forest plans
 - client brief.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. In particular, assessors must have:

- arboriculture vocational competencies at least to the level being assessed
- current arboriculture industry skills directly relevant to the unit of competency being assessed.

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>