



Australian Government

SISXRES504A Conserve and re-establish natural systems

Release: 3

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Modification History

The release details of this endorsed unit of competency set are in the table below. The latest information is at the top.

Release	Comments
3	Reduction of repetition. No changes to competency outcome.

Unit Descriptor

This unit describes the performance outcomes, skills and knowledge required to prepare an inventory of natural systems, assess threats and opportunities, and develop and implement strategies to conserve and re-establish natural systems for specific locations and systems appropriate to outdoor programs and activities.

Application of the Unit

This unit applies to those who work as operations or program managers with responsibility for planning, implementing and evaluating outdoor recreation programs and activities across a range of activity areas. Work would be undertaken autonomously with responsibility for management of resources.

Licensing/Regulatory Information

No licensing, legislative, regulatory or certification requirements apply to this unit at the time of endorsement.

Pre-Requisites

Not applicable.

Employability Skills Information

This unit contains employability skills.

Elements and Performance Criteria Pre-Content

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

Elements describe the essential outcomes of a unit of competency.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.

1. Prepare an inventory of natural systems.

- 1.1. Identify ***natural systems*** and their components within relevant outdoor programs and activities.
- 1.2. Identify and review ***existing data sources*** on the natural systems to enable analysis of the systems' characteristics.
- 1.3. Assess the significance of natural systems according to ***relevant legislation*** and ***organisational policies and procedures***.
- 1.4. Prepare and document an inventory of natural systems.

2. Assess threats and opportunities.

- 2.1. Identify ***threats and opportunities*** for the conservation and re-establishment of natural systems.
- 2.2. Prioritise threats and opportunities according to relevant ***classification system***.

3. Develop strategies to conserve and re-establish natural systems.

- 3.1. Identify and assess the effectiveness of comparable methods and strategies of conservation in practice elsewhere.
- 3.2. Determine and select strategies to conserve and re-establish natural systems in consultation with ***stakeholders***.
- 3.3. Identify and access ***resources*** to support the achievement of required outcomes of strategies.
- 3.4. Develop alternative and innovative approaches to the conservation and re-establishment of natural systems, where appropriate, to meet local requirements.

4. Implement strategies.

- 4.1. Identify and assess training required to support implementation.
- 4.2. Prepare and distribute material to community to provide information about the strategy.
- 4.3. Apply techniques for the conservation and

ELEMENT**PERFORMANCE CRITERIA**

- re-establishment of natural systems.
- 4.4. Trial and assess innovative and alternative techniques.
- 4.5. Monitor effectiveness of strategies.
5. Evaluate strategies.
- 5.1. Seek feedback from stakeholders and the community.
- 5.2. Collect and analyse data to evaluate performance.
- 5.3. Compare performance with strategy objectives to assess effectiveness.
- 5.4. Make recommendations to appropriate personnel to improve the effectiveness of the strategies.
- 5.5. Use information obtained during monitoring and review to develop new strategies where required.

Required Skills and Knowledge

This section describes the skills and knowledge required for this unit.

Required skills

- communication skills to:
 - consult and liaise with stakeholders and staff about the implementation of conservation strategies
 - seek feedback on the effectiveness of strategies
- language and literacy skills to:
 - analyse data on conservation strategies
 - document an inventory of natural systems
 - prepare community information materials
- numeracy skills to:
 - collect and analyse data to evaluate performance
 - develop strategies within organisational budgets
- problem-solving skills to:
 - assess threats and opportunities
 - compare conservation strategies for similar environments and select appropriate strategies
 - monitor and evaluate the effectiveness of strategies and develop alternative strategies where appropriate
- planning and organising skills to work within identified timeframes and budgets and in accordance with organisation policies and procedures.

Required knowledge

- legislation to enable the responsible conservation and re-establishment of natural systems
- organisational policies and procedures to:
 - collect and use information responsibly
 - evaluate and select conservation strategies and implement these according to organisational objectives
- conservation principles to enable the responsible management of natural systems
- research and analysis techniques to enable the collection and analysis of data for the development of appropriate conservation strategies
- techniques for the re-establishment of environments and natural systems to enable organisational goals to be met
- natural systems and interrelationships between components to enable the development of appropriate strategies to protect them
- project-management techniques to monitor and evaluate strategies to conserve and re-establish natural systems
- political and economic trends in relation to conservation issues to enable an accurate analysis of threats and opportunities.

Evidence Guide

The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.

Overview of assessment

Critical aspects for assessment and evidence required to demonstrate competency in this unit

Evidence of the ability to:

- undertake research, planning and consultation to develop, implement and evaluate strategies to conserve and re-establish natural systems for a specific location or area in accordance with organisation policies and procedures and legislative requirements
- support conservation by identifying staff training needs and preparing community information materials.

Context of and specific resources for assessment

Assessment must ensure:

- conservation and re-establishment of a natural system reflecting local requirements which is of sufficient breadth to demonstrate competency and consistency of performance.

Assessment must also ensure access to:

- an area or location containing natural systems or components of these
- resources and information relevant to the natural system
- relevant information impacting on conservation of natural systems
- relevant stakeholders.

Method of assessment

A range of assessment methods should be used to assess practical skills and knowledge. The following examples are appropriate for this unit:

- review of authentic conservation strategy showing evidence of consultation, implementation and review
- oral and or written questioning to assess knowledge of natural systems and interrelationships between their components
- portfolio containing evidence of research and consultation processes to compile an inventory of natural systems
- third-party reports from a supervisor detailing

Guidance information for assessment

appropriate work performed by the individual.

Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended. for example:

- SISXRES505A Achieve sustainable land management.

Range Statement

RANGE STATEMENT

The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.

Natural systems may include:

- flora and fauna
- communities
- habitats
- regeneration
- revegetation
- fire management
- degradation factors.

Existing data sources may include:

- state and federal bodies
- state Environmental Protection Authorities
- interest groups
- referral bodies
- Municipal Planning Scheme.

Relevant legislation may include:

- environmental protection
- tenure
- local laws and by-laws
- ordinances and policy.

Organisational policies and procedures may include:

- data collection and use
- communication protocols
- classification systems
- staff training.

Threats and opportunities may include:

- political forces
- economic forces
- community attitudes
- interest groups.

Classification system may include:

- type
- level
- land tenure.

Stakeholders may include:

- authorities
- government agencies
- community
- landowners or custodians.

Resources may include:

- financial

RANGE STATEMENT

- human
- physical.

Unit Sector(s)

Cross-Sector

Competency Field

Resource Management.