



Australian Government

Assessment Requirements for FWPFRM5006 Analyse ecology of commercial native forests and plantations

Release: 1

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Modification History

Release	Comments
Release 1	This version released with Forest and Wood Products Training Package Version 7.0.

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:

- conducted one biodiversity evaluation in either a native forest or a plantation. In undertaking this activity, the individual has:
 - applied knowledge of forest ecology, biodiversity and the impact of forestry practices on biodiversity
 - established objectives of biodiversity evaluation and its relationship with the regulatory framework
 - planned and implemented biodiversity evaluation according to workplace procedures
 - briefed forestry personnel on biodiversity evaluation
 - gathered, collated and analysed data
 - sought support from senior personnel during planning and implementation of biodiversity evaluation
 - analysed and reported findings of biodiversity evaluation to appropriate personnel
- monitored biodiversity management and conservation practices in one forestry operation in either a native forest or plantation. In undertaking this activity, the individual has:
 - applied knowledge of forest ecology and the impact of forestry practices on biodiversity
 - selected an appropriate method and identified personnel and resources required for monitoring biodiversity management and conservation practices in one forestry operation
 - briefed forestry personnel on the reasons and methods for monitoring biodiversity management and conservation practices in the selected forestry operation
 - gathered, collated and analysed data on forestry operation
 - reported outcomes of monitoring activities to appropriate personnel.

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:

- structure and composition of native forests and plantations
- ecological processes:
 - succession
 - disturbance
 - predation
 - competition
 - climatic
 - hydrological
 - nutrient cycles
 - element cycling, such as carbon sequestration
- flora and fauna species of high conservation significance:
 - types
 - habitat
 - conservation and management strategies
- ecosystem services provided by commercial native forests and plantations:
 - provisioning – water provision, biomass for timber, biomass for firewood, honey, fodder
 - regulating – water flow regulation, soil retention, carbon sequestration and storage, pollination, habitat for species, air filtration, pest and disease control
 - cultural – recreation and tourism, social and community connection, cultural heritage connection, amenity, education and research
- impact of forest management activities on biodiversity:
 - establishment
 - harvesting
 - regeneration
 - road and track construction
 - silvicultural practices
 - haulage
- international conventions and national, state and territory legislation, policies and agreements relating to biodiversity management and conservation
- biodiversity evaluation:
 - methods for evaluating biodiversity values
 - ground survey techniques
 - planning tools and databases
 - procedures to assess habitat suitability for forest-dependant threatened or priority species
 - procedures for identifying and assessing vegetation communities

- procedures for planning and implementing a biodiversity evaluation
- procedures for monitoring biodiversity management and conservation practices in forestry operations.

Assessment Conditions

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

- physical conditions:
 - skills must be demonstrated in a forest work environment or an environment that accurately represents workplace conditions
- resources, equipment and materials:
 - a native forest or plantation stand
 - computing hardware and software for preparing reports and analysing data related to biodiversity conservation and management
 - stand data related to biodiversity conservation and management
- specifications:
 - workplace policies and procedures related to the conduct of biodiversity evaluations
 - access to workplace policies and procedures that cover current Environment Protection Acts, regulations and related industry standards and codes of practice applicable to forestry operations.

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

Links

Companion Volumes, including Implementation Guides, are available at VETNet: -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>