



Australian Government

Assessment Requirements for FWPFOM5010 Apply principles of forest science to optimise forest management practices

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 optimised at least one forest management practice through the use of forest science principles related to any of the following areas:

- soil quality and erosion control
- water quality and quantity
- landslide mitigation
- nutrient management.

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:

- physical and chemical properties of major soil types
 - erodibility of different soil types
 - human and natural factors impacting on soil mass movement
 - techniques for interpreting soil maps, including the soil classification system
 - techniques for constructing soil profiles
 - procedures for testing soil nutrients and interpreting soil sample results
 - strategies for maintaining and improving soil quality on forestry sites:
 - limit the area of compacted soils
 - maintain favourable conditions for forest growth
 - retain and enhance carbon storage to support soil ecologic functions
 - limit impacts of roads and landings
 - different types and causes of landslides and other forms of mass movement
 - effects of forest operations on the occurrence of landslides
 - strategies for mitigating landslide hazards on sites where forest management activities are practiced
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- impact of forestry operations on water yield and water quality
- cumulative effects of harvesting within catchments on water runoff and erosion
- techniques for classifying streams according to erosion risk
- ways of protecting drainage depressions
- rehabilitation/revegetation processes for at-risk riparian zones
- types and sources of elements essential to plant growth
- effects of nutrient deficiencies and disorders on the management of commercial forestry
- impact of fertiliser applications in commercial forestry
- nutrient management requirements.

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 soil, water, landslide and nutrient management
 - stand data related to soil, water, landslide and nutrient management.

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>