



Australian Government

**Assessment Requirements for
FWPFRM5002 Source information on the
contribution of forestry to carbon reduction
strategies**

Release: 1

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Modification History

Release	Comments
Release 1	This version released with FWP 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:

- researched and presented information on the contribution of forestry to carbon reduction to one professional and one operational audience
- researched and presented information on estimating forest carbon stock to one professional and one operational audience.

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:

- the role of forests in the carbon cycle
- the impact of climate change on tree physiology and forest ecosystems
- the role of forests in climate change mitigation
- the key features and role of forestry in carbon reduction strategies:
 - carbon sequestration
 - emissions trading schemes
- key concepts used in estimating forest carbon stocks:
 - carbon pools
 - biomass
 - carbon stock
 - carbon fluxes
- types of carbon pools:
 - above ground biomass
 - below ground biomass
 - dead wood

- litter
- soil organic carbon
- methods for estimating forest carbon stocks and changes in carbon stock:
 - estimation by default factors
 - estimation by modelling
 - estimation by measurement
- techniques for measuring land areas
- sampling design and sampling methods for estimating carbon stocks
- techniques for conducting measurements in sampling plots
- quality assurance and quality control techniques used in forest carbon inventory
- statistical analysis techniques applicable to biomass and carbon assessments
- methods used to predict biomass growth and carbon stock growth, specifically the use of growth models.

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:
 - reference materials on carbon reduction strategies and estimating forest carbon stock
- specifications:
 - workplace policies and procedures on estimating forest carbon stock.

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>