



Australian Government

Assessment Requirements for FWPFGM5219 Undertake carbon stock sampling of forests and plantations

Release: 1

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Modification History

Release	Comment
1	Replaces superseded equivalent unit FPIFGM5219 Undertake carbon stock sampling which was first released with FPI11 Forest and Forest Products Training Package Version 2.2. Assessment requirements now specify the performance and knowledge evidence, as well as assessment conditions for this unit of competency. These sections simplify and replace components used in the previous unit format, including 'Required Skills and Knowledge, Evidence Guide and Range Statement'.

Performance Evidence

A person demonstrating competency in this unit must satisfy all of the elements, performance criteria and foundation skills of this unit, and must be able to provide evidence that they can:

- Design two measurement programs for two individual sites to calculate current and expected biomass and carbon stocks of:
 - trees above and below ground
 - other vegetation
 - litter layer
 - soil.
- Complete survey and sampling activities for one of those sites using the measurement plan designed.
- Record and analyse all data collected for the site, estimate current carbon stocks, select a growth model and predict and document biomass growth and carbon stocks.
- Complete a report on survey and sampling activities recommending improvements for future processes.

Knowledge Evidence

A person competent in this unit must be able to demonstrate knowledge of:

- Requirements for obtaining permits and licences for site sampling activities and the authority from whom approval must be obtained.
- Characteristics and growth habits of local vegetation.
- Soil characteristics and topography of local area.

- Purpose, features and application of measurement programs used to calculate current and expected biomass and carbon stocks of the following:
 - trees above and below ground
 - other vegetation
 - litter layer
 - soil
 - wood products.
- Data collection and sampling methods for estimating carbon stocks.
- 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.
- Purpose, features and operation of survey and assessment equipment and tools, including:
 - geographic information systems
 - interpretation of topographic maps and aerial photography
- Organisational procedures specific to carbon stock sampling, including:
 - workplace health and safety with particular emphasis on risk assessment and control
 - communication reporting lines
 - recording and reporting sampling data.

Assessment Conditions

The following resources must be made available:

- topographic maps
- aerial photography
- geographic information systems
- documents and commonly used proformas for recording sampling data
- organisational procedures for carbon stock sampling.

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting.

Assessor requirements

Assessors must:

- Hold the appropriate assessor competency standards as outlined in regulations; and
- be able to demonstrate vocational competencies at least to the level being assessed; and
- be able to demonstrate how they are continuing to develop their VET knowledge and skills as well as maintaining their industry currency and assessor competence.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47>

