Australian Government

FWPCOT6204 Use carbon accounting to estimate emissions

Release: 1

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Modification History

Release	Comment
1	Replaces equivalent unit FPICOT6204A Use carbon accounting to estimate emissions in the workplace which was first released with FPI11 Forest and Forest Products Training Package Version 2.2

Application

This unit of competency describes the outcome required to identify and apply carbon accounting methodologies to develop and analyse a carbon inventory. It applies to senior managers and can apply to the full scope of forest and wood products industry workplaces and to operations of all sizes.

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

Pre-requisite Unit

Nil.

Unit Sector

Common Technical

Elements and Performance Criteria

ELEMENTS *Elements describe the essential outcomes.*	PERFORMANCE CRITERIA *Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.*
1. Evaluate context for carbon accounting	1.1 Determine organisational need to quantify stocks, sources and sinks of carbon and other greenhouse gas (GHG) emissions in line with anthropogenic impacts on global climate. 1.2 Investigate mandatory and voluntary obligations for carbon accounting under international conventions and protocols within national context. 1.3 Examine the principles of baseline scenario, leakage and

ELEMENTS	PERFORMANCE CRITERIA
	permanence. 1.4 Assess the role of forest and wood products industry in global balance of GHG emissions. 1.5 Establish organisational objective of conducting carbon emission accounting.
2. Identify carbon accounting methodologies and define approach	2.1 Identify and explore methodologies for carbon accounting. 2.2 Examine carbon accounting frameworks. 2.3 Identify protocols for carbon biomass pools including harvested wood products and non-CO2 emissions. 2.4 Establish approach for developing carbon inventory in line with nationally agreed standards.
3. Establish accounting area	3.1 Define organisational and operational boundaries for carbon inventory. 3.2 Determine time period over which carbon emissions will be assessed.
4. Collect data	4.1 Identify emissions and offset sources. 4.2 Determine collection of activity consumption and offset data, based on data availability, analytical capacity and available resources. 4.3 Construct carbon inventory summary table, listing and separating emission sources into correct scopes. 4.4 Include carbon offset sources outside scope in carbon inventory summary table. 4.5 Record available data in separate spreadsheet tabs. 4.6 Research and gather existing secondary and field data for carbon storage sources.
5. Calculate carbon emissions	5.1 Calculate carbon dioxide equivalent emissions consistent with GHG protocol within spreadsheets for each emissions source. 5.2 Calculate carbon storage according to standardised methodology for each carbon offset source in the inventory. 5.3 Populate carbon inventory summary with calculated emissions and offsets in descending order. 5.4 Calculate total emissions for each scope and for removals and offsets. 5.5 Calculate sum total of emissions and offsets for inventory.

ELEMENTS	PERFORMANCE CRITERIA
	5.6 Estimate change in carbon stock if a baseline exists. 5.7 Display emissions by scope and source, using charts or graphs. 5.8 Formulate suitable ratio indicator for organisation and calculate value based on total carbon emissions in the summary. 5.9 Report value of ratio indicator in carbon inventory summary.

Foundation Skills

This section describes those core and employment skills that are essential to performance and are not explicit in the performance criteria.	
Numeracy skills to:	• interpret a range of complex abstract numerical data • complete highly technical and complex calculations using equations • record abstract data with precision and prepare interpretative charts and graphs.
Reading skills to:	• interpret highly technical, complex and unfamiliar information within international and Australian protocol and convention documents.
Writing skills to:	• document clear explanatory notes for calculations.
Planning and organising skills to:	• source, collect and organise a range of data to inform carbon emission calculations • plan and organise collection of all required information and manage own timing and productivity to complete calculations.
Technology skills to:	• use a computer, keyboard and spreadsheet software to prepare and maintain calculations.

Unit Mapping Information

FPICOT6204A Use carbon accounting to estimate emissions in the workplace.

Links

Companion Volume implementation guides are found in VETNet - https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0d96fe23-5747-4c01-9d6f-3509ff8d3d47