



Australian Government

AHCAGB508 Improve agricultural sustainability using renewable energy and recycle systems

Release: 1

AHCAGB508 Improve agricultural sustainability using renewable energy and recycle systems

Modification History

Release	TP Version	Comment
1	AHCv1.0	Initial release

Application

This unit of competency covers the development of planning strategies to address sustainability issues, using renewable energy sources and opportunities to recycle products, improve the efficiency of the business and reduce off-site impacts from the production system.

It will involve working in a safe manner and applying sustainable renewable energy systems to rural, regional and local conditions. All work must be carried out to comply with workplace procedures, work health and safety legislation and codes, and sustainability practices.

This unit is applicable to a person who has role in the management of the following land based business:

- Agricultural related industries
- Production Horticulture
- Agro-Forestry

This unit will require the consultation with external experts such as alternative energy consultants and suppliers of alternative energy equipment, planning authorities, State and Federal Government Departments who administer subsidies and provide advice.

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

Pre-requisite Unit

Nil.

Unit Sector

Agribusiness (AGB)

Elements and Performance Criteria

Element	Performance criteria
Elements describe the essential outcomes.	Performance criteria describe the performance needed to demonstrate achievement of the element.
1. Identify opportunities to reduce greenhouse gas emissions and use recycling	1.1 Identify areas of each enterprise to improve efficient use of energy and cost savings to work practices, using renewable energy resources, recycling products and other ways to reduce greenhouse gas emissions. 1.2 Identify available government subsidies for the implementation of strategies using renewable energy or recycling and potential cost savings to the business in the longer term. 1.3 Identify the specified standards of quality, licensing, regulatory requirements, government legislation and safety issues for the introduction of any renewable energy resources and recycled products 1.4 Identify potential income earnings capabilities to business by on selling energy excesses or recycled products. 1.5 Measure improvement outcomes from the introduction of renewable energy sources and recycling products in relation to achieving greater sustainability. 1.6 Identify and conduct risk assessment for work health and safety hazards
2. Develop strategies to reduce greenhouse gas emissions and use recycling	2.1 Develop strategies to apply principles of sustainability to address greenhouse gas emissions from using renewable energy resources, recycled products and improved work practices. 2.2 Estimate plant, material, labour and other associated costs in consultation with appropriate person(s) or organization(s). 2.3 Develop a budget for estimated plant, material, labour and other associated costs 2.4 Develop effective work plan strategies for the introduction of renewable energy resources and recycled products. 2.5 Investigate sources and availability of materials and human resources needed to complete work plan 2.6 Develop risk management strategies including contingencies to maintain supply to contract on time and incorporate into the plan. 2.7 Develop work health and safety risk control measures and establish procedures
3. Implement strategies to reduce greenhouse gas emissions and use recycling	3.1 Implement and monitor the plan for renewable energy and recycling products to ensure on time supply of plant and materials. 3.2 Monitor the progress of strategies to reduce greenhouse gas emissions and recycling against schedule, quality requirements

Element	Performance criteria
	and budget. 3.3 Identify unplanned events and deal with safely and effectively, consistent with regulatory requirements and enterprise policy. 3.4 Review plan against required inputs and make adjustments to rectify any anomalies to meet and supply contractual arrangements on time. 3.5 Monitor work health and safety risk control measures and procedures and implement changes 3.6 Evaluate the improvement outcomes and document appropriate corrective action taken with a view to improvement.

Foundation Skills

Foundation Skills essential to performance are explicit in the performance criteria of this unit of competency.

Range of Conditions

Unit Mapping Information

New unit - equivalent to VBP477 Improve agricultural sustainability using renewable energy and recycle system/s

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>

Assessment Requirements for AHCAGB508 Improve agricultural sustainability using renewable energy and recycle systems

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Performance Evidence

The candidate must be assessed on their ability to integrate and apply the performance requirements of this unit in a workplace setting. Performance must be demonstrated consistently over time and in a suitable range of contexts.

The candidate must provide evidence that they can:

- identify key parts of the enterprise operation that may be converted to renewable energy sources, reducing greenhouse emissions and recycling opportunities using key principles of sustainability
- establish a budget, organising materials and staff
- develop a plan to use renewable energy and recycling systems in agricultural systems including environmental risk management strategies
- develop workflow plan strategies and monitor progress of the plan during the implementation stages including work health and safety issues
- establish and evaluate improvement outcomes
- identify sustainability issues and implement associated systems for the use of renewable energy and recycling systems
- plan and budget cost efficient savings by implementing renewable energy of project
- monitor the plan and address contingency plans including risk management strategies
- recognise work health and safety hazards and implement control measures on the work site
- recognise environmental safety issues associated with the use of renewable energy
- organise materials, plant and human resources for implementation for the adoption of renewable energy or recycling opportunities
- measure and evaluate improvement outcomes.

Knowledge Evidence

The candidate must demonstrate knowledge of:

- key principles of sustainability associated with using of renewable energy and recycling systems
- government legislation, regulatory requirements, licensing and subsidies

- environmental and work health and safety risk management strategies.

Assessment Conditions

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

Assessors must satisfy current standards for RTOs.

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