



Australian Government

ICTSUS802 Conduct a business case study for integrating sustainability in ICT planning and design projects

Release: 1

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Modification History

Release	Comments
Release 1	This version first released with ICT Information and Communications Technology Training Package Version 1.0.

Application

This unit describes the skills and knowledge required to establish a business case to justify innovative implementation of sustainability in information and communications technology (ICT) planning and design projects, including accessing industry information and applying legislative guidelines.

It applies to individuals who may be working in a role as a project manager, planner and designer, consultant or contractor and who has responsibility for conducting or managing ICT projects to plan and conduct cost–benefit analysis and return on investment for the implementation of sustainable schemes at the enterprise level.

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

Unit Sector

Sustainability

Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
<i>Elements describe the essential outcomes.</i>	<i>Performance criteria describe the performance needed to demonstrate achievement of the element.</i>
1. Scope project for establishing business case for integrating sustainability in ICT project	1.1 Critically analyse proposed ICT project specifications to determine scope and extent of sustainability integration in design aspects 1.2 Critically analyse and evaluate expected goals of project and relate business case to broader organisational goals 1.3 Research appropriate sources of information relevant to project

ELEMENT	PERFORMANCE CRITERIA
	to prepare business case for validation with stakeholders
2. Plan and conduct business case for sustainable ICT project	2.1 Evaluate critical success factors to determine vital strategy for project to implement sustainability and gain competitive advantage 2.2 Produce estimate of costs projected over appropriate time period and determine potential for return on investment for proposed design and implementation plan 2.3 Conduct cost–benefit analysis to determine financial gain of derived overall benefit obtained by integrating sustainability into project 2.4 Produce executive summary for stakeholders on proposal, including risk analysis if sustainability component activity is not implemented
3. Devise management strategies for integrating sustainability into ICT project	3.1 Initiate and progress sustainable management principles that result in reduced environmental impact 3.2 Establish, regularly review and improve key performance indicators (KPIs) on sustainability performance 3.3 Incorporate innovative planning and design rules for ICT projects that foster sustainability and environmental best practice 3.4 Produce energy usage projection using estimated carbon dioxide emissions with comparable benchmarks and provide detailed report to support long-term benefits

Foundation Skills

This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance.

Skill	Performance Criteria	Description
Writing	2.2, 2.3, 2.4, 3.2, 3.3	- Generates complex written reports, business cases and executive summaries, demonstrating control over a broad range of writing styles and purposes - Prepare documents requiring precise expression, language and structures suited to intended audience
Numeracy	2.2, 2.3	Analyses and synthesises highly embedded mathematical information for business case, budgets, workforce requirements and related sustainability benchmarks

Navigate the world of work	3.1, 3.3, 3.4	• Works autonomously, making high level decisions to achieve and improve organisational goals • Develops and implements strategies that ensure organisational policies, procedures and regulatory requirements are being met • Monitors and reviews the organisation's policies, procedures and adherence to legislative requirements to implement and manage change
Interact with others	2.4	• Uses a variety of relevant communication tools and strategies in building and maintaining effective working relationships • Influences and fosters a collaborative culture, facilitating a sense of commitment and workplace cohesion • Understands diversity and seeks to integrate diversity into the work context for managing change, making decisions and achieving shared outcomes
Get the work done	1.1-1.3, 2.1, 2.3, 2.4, 3.1-3.4	• Plans strategic priorities and outcomes within a flexible, efficient and effective context in a diverse environment exposed to competing demands • Identifies key factors that impact on decisions and their outcomes, drawing on experience, competing priorities and decision-making strategies where appropriate • Explores and incubates new and innovative ideas through unconstrained analysis and critical thinking to develop and improve the organisation's goals • Uses digital technologies to manage business operations and actively investigates new technologies for strategic and operational purposes

Unit Mapping Information

Code and title current version	Code and title previous version	Comments	Equivalence status
ICTSUS802 Conduct a business case study for integrating sustainability in ICT	ICASUS702A Conduct a business case study for integrating sustainability in IT planning	Updated to meet Standards for Training Packages. Minor edits to	Equivalent unit

Code and title current version	Code and title previous version	Comments	Equivalence status
planning and design projects	and design projects	the competency title. Recoded and minor changes to performance criteria to meet AQF requirements.	

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=a53af4e4-b400-484e-b778-71c9e9d6aff2>

Assessment Requirements for ICTSUS802 Conduct a business case study for integrating sustainability in ICT planning and design projects

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Performance Evidence

Evidence of the ability to:

- establish an effective business case to introduce or improve sustainability in an information and communications technology (ICT) project
- produce an accurate cost–benefit analysis showing overall benefit of integrating sustainability into an ICT project
- devise, implement and review management strategies showing a measurable improvement using the chosen benchmark indicators.

Note: If a specific volume or frequency is not stated, then evidence must be provided at least once.

Knowledge Evidence

To complete the unit requirements safely and effectively, the individual must:

- compare best practice approaches relevant to sustainability
- research and contrast energy consumption and energy audit methodologies
- research and critically evaluate environmental and sustainability legislation, regulations and codes of practice applicable to the industry and the organisation
- evaluate the environmental impacts of products, processes, systems and services
- interpret global and national initiatives, legislation, policies and guidelines relevant to project
- research and critique the principles, practices and available tools and techniques of sustainability management relevant to the ICT industry
- explain quality assurance systems relevant to own organisation
- formulate the relevant organisational policies, procedures and protocols required to assist in achieving workplace sustainability
- research and apply sustainability assessment tools and key performance indicators and benchmarks

- describe sustainable management principles and strategies
- critique the various software tools for ICT power consumption and CO2 emissions calculations.

Assessment Conditions

Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the sustainability field of work and include access to:

- a range of workplace documentation
- personnel associated with a relevant business
- legislation, specifications and guidelines
- a site on which preparation of a business case may be carried out.

Assessors must satisfy NVR/AQTF assessor requirements.

Links

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