



Australian Government

Department of Education, Employment and Workplace Relations

ICAA6157B Develop technical requirements for a business solution

Release: 1

ICAA6157B Develop technical requirements for a business solution

Modification History

Not Applicable

Unit Descriptor

Unit descriptor	<p>This unit defines the competency required to develop technical and related requirements that will enable business solutions to be implemented in an organisation.</p> <p>The following unit is linked and forms an appropriate cluster:</p> <ul style="list-style-type: none"> • ICAA6149B Implement quality assurance process for business solutions <p>No licensing, legislative, regulatory or certification requirements apply to this unit at the time of publication.</p>
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Application of the Unit

Application of the unit	
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Licensing/Regulatory Information

Refer to Unit Descriptor

Pre-Requisites

Prerequisite units		

Employability Skills Information

Employability skills	This unit contains employability skills.
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Elements and Performance Criteria Pre-Content

Elements describe the essential outcomes of a unit of competency.	Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the required skills and knowledge section and the range statement. Assessment of performance is to be consistent with the evidence guide.
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Elements and Performance Criteria

ELEMENT	PERFORMANCE CRITERIA
1. Research business requirements	1.1. Define and document, <i>hardware</i> and <i>software requirements</i> of the business solution 1.2. Determine model of business 1.3. Determine <i>technical specifications</i> for business 1.4. Establish <i>interface requirements</i> for end users and external parties 1.5. Document business solution <i>requirements</i> for approval from <i>stakeholders</i> 1.6. Determine IT security <i>requirements</i>
2. Analyse the impact of technical solutions	2.1. Identify <i>hardware, software</i> and <i>network requirements</i> 2.2. Identify <i>software</i> solutions to build business platform 2.3. Identify processes to be changed by the business solution 2.4. Determine the effect changes will have on the value or supply chain 2.5. Document impact of changes and submit to relevant <i>stakeholders</i> 2.6. Research and document a range of <i>security protocols</i> suitable for business solutions
3. Develop and test business solution	3.1. Implement <i>hardware</i> and <i>software</i> solutions for testing purposes 3.2. Identify and document training needs to update personnel skills 3.3. Plan and document timelines and allocation of resources for business solution 3.4. Develop performance <i>standards</i> and benchmark results 3.5. Determine costs involved to implement business solution 3.6. Document the business solution
4. Secure signoff of validated solution	4.1. Test, validate and document results of the business solution 4.2. Provide results to appropriate person for verification 4.3. Obtain sign-off on business solution

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This section describes the skills and knowledge required for this unit.

Required skills

- Website analysis and design
- Technical architecture of business solutions
- Use of site design software and hardware
- Business analysis

Required knowledge

- Technical options for website architecture
- Business process design
- Customer and business liaison
- Potential business solutions
- Prevailing corporate strategies
- Implications of technology connectivity
- Documenting technical specifications
- Copyright and intellectual property

Evidence Guide

EVIDENCE GUIDE	
<p>The evidence guide provides advice on assessment and must be read in conjunction with the performance criteria, required skills and knowledge, range statement and the Assessment Guidelines for the Training Package.</p>	
Overview of assessment	
Critical aspects for assessment and evidence required to demonstrate competency in this unit	<p>Evidence of the following is essential:</p> <ul style="list-style-type: none"> • Assessment must confirm the ability to identify the internal and external technical environments and develop a corresponding list of technical requirements that enable the technology to provide the business solution. <p>To demonstrate competency in this unit the following resources will be needed:</p> <ul style="list-style-type: none"> • Business requirements documentation • Business model • Customer relationship model
Context of and specific resources for assessment	<p>Developing the technical requirements for a business solution requires depth and complexity involving analysis, diagnosis, design, planning, execution and evaluation across a broad range of technical functions, including development of new criteria or applications or knowledge or procedures.</p> <p>Significant reviewing of technical processes and complex business techniques across a wide and often unpredictable variety of contexts is necessary for determining secure platforms to manage the business solution.</p> <p>Contribution to the development of a broad technical plan is involved and accountability and responsibility for self and others in achieving the outcomes is involved.</p> <p>Applications involve significant judgement in technical or leadership/guidance.</p>

EVIDENCE GUIDE	
	<p>The degree of emphasis on breadth as against depth of knowledge and skills may vary between qualifications granted at this level.</p> <p>The breadth, depth and complexity involving analysis, design, planning, execution and evaluation across a range of technical and/or management functions including development of new criteria or applications or knowledge or procedures would be characteristic.</p> <p>Assessment must ensure:</p> <ul style="list-style-type: none"> • application of a significant range of fundamental principles and complex techniques across a wide and often unpredictable variety of contexts in relation to either varied or highly specific functions. • Contribution to the development of a broad plan, budget or strategy may be involved and accountability and responsibility for self and others in achieving the outcomes may also be characteristic. • Applications involve significant judgement in planning, design, technical or leadership/guidance functions related to products, services, operations or procedures would be common.
Method of assessment	<p>The purpose of this unit is to define the standard of performance to be achieved in the workplace. In undertaking training and assessment activities related to this unit, consideration should be given to the implementation of appropriate diversity and accessibility practices in order to accommodate people who may have special needs. Additional guidance on these and related matters is provided in ICA05 Section 1.</p> <ul style="list-style-type: none"> • Competency in this unit should to be assessed using summative assessment to ensure consistency of performance in a range of contexts. This unit can be assessed either in the workplace or in a simulated environment. However, simulated activities must closely reflect the workplace to enable full demonstration of competency. • Assessment will usually include observation of real or simulated work processes and procedures and/or performance in a project context as well as

EVIDENCE GUIDE	
	<p>questioning on underpinning knowledge and skills. The questioning of team members, supervisors, subordinates, peers and clients where appropriate may provide valuable input to the assessment process. The interdependence of units for assessment purposes may vary with the particular project or scenario.</p>
Guidance information for assessment	<p>Holistic assessment with other units relevant to the industry sector, workplace and job role is recommended, for example:</p> <ul style="list-style-type: none"> • ICAA6149B Implement quality assurance process for business solutions <p>An individual demonstrating this competency would be able to:</p> <ul style="list-style-type: none"> • demonstrate understanding of technical requirements, with depth in some areas • analyse technical solutions, diagnose, design and execute judgements across a broad range of options • demonstrate understanding of business needs in a wide-ranging, highly specialised technical creative and conceptual environment • produce technical requirements through the analysis of information and concepts at an abstract level • Demonstrate understanding of specialised knowledge with depth in some areas • Analyse, diagnose, design and execute judgement across a broad range of technical or management functions • Generate ideas through the analysis of information and concepts at an abstract level • Demonstrate a command of wide-ranging, highly specialised technical, creative or conceptual skills • Demonstrate accountability for personal outputs within broad parameters • Demonstrate accountability for personal and group outcomes within broad parameters • Maintain knowledge of industry products and services

Range Statement

RANGE STATEMENT	
<p>The range statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance. Bold italicised wording, if used in the performance criteria, is detailed below. Essential operating conditions that may be present with training and assessment (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) may also be included.</p>	
Hardware	<ul style="list-style-type: none"> • A variety of hardware may need to be used. This will include being able to identify the key hardware characteristics of internally used hardware and external hardware that must be interfaced with
Stakeholders may include but are not limited to:	<ul style="list-style-type: none"> • end user • internal or external client • government body • corporate body • community groups
Requirements may be in reference to:	<ul style="list-style-type: none"> • business • system • application • network • people in the organisation
Standards may include:	<ul style="list-style-type: none"> • ISO/IEC/AS standards • organisational standards • project standards (for further information refer to the Standards Australia website at: www.standards.com.au)
Technical specifications may include:	<ul style="list-style-type: none"> • project specifications • reports • help references • technical manuals • training materials and self-paced tutorials • on-line help • user guides • brochures
Interface requirements may include but are not limited to:	<ul style="list-style-type: none"> • GUI (web-based, application-based) • command line • a variety of communication options

RANGE STATEMENT	
<i>Documentation</i> may follow:	<ul style="list-style-type: none"> • ISO/IEC/AS standards • audit trails • naming standards • version control • project management templates and report writing • maintaining equipment inventory • client training and satisfaction reports
<i>Network</i> may include but are not limited to:	<ul style="list-style-type: none"> • large and small LANs • WANs • VPNs • the internet • the use of the PSTN for dial-up modems only, • private lines • data • voice
<i>Software</i> may include but are not limited to:	<ul style="list-style-type: none"> • commercial • in-house • packaged • customised software
<i>Security protocols</i> may include:	<ul style="list-style-type: none"> • Secure multi-purpose internet mail extensions • Secure socket layer and transport layer security • IP security protocol • Domain name system security extensions • Data over cable service interface specification • IEEE 802.11 protocol standard for secure wireless local area network products • Point-to-point network tunnelling protocol • Secure electronic transactions • Secure shell

Unit Sector(s)

Unit sector	Analyse and Design
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Co-requisite units

Co-requisite units		

Competency field

Competency field	
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