Australian Government

Department of Education, Employment and Workplace Relations

ICA50305 Diploma of Information Technology (Systems Administration)

Release: 1

ISC INDUSTRY SKILLS COUNCILS
Creating Australia's Future

ICA50305 Diploma of Information Technology (Systems Administration)

Modification History

Not Applicable

Description

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This qualification provides the skills and knowledge for an individual to be competent in the management and maintenance of systems as it includes high end development and integrative competencies and delivers the competence to effectively manage and maintain complex ICT systems.

Job Roles

This technical qualification is designed to produce individuals who are highly skilled in systems administration.

Possible job titles include:

- IS Manager
- Internet Administrator
- Internet Systems Administrator
- Intranet Administrator
- IT Manager
- Systems Administrator
- System Manager

Prerequisite Requirements

A number of units within this qualification have prerequisites. These are detailed as follows:

Code and title	Prerequisite units required
ICAA5151B Gather data to identify business requirements	ICAA4041C Determine and confirm client business expectations and needs
	ICAA4233B Determine and apply appropriate development methodologies
ICAA5158B Translate business needs into technical requirements	ICAA4233B Determine and apply appropriate development methodologies
ICAB5159C Build a security shield for a network	ICAS5192B Configure an internet gateway [#]
ICAB5160C Build and configure a server	ICAA5140C Design a server [#]
	ICAS3120C Configure and administer a network operating system [#]
ICAP5039B Match IT needs with the strategic direction of the enterprise	ICAA4041C Determine and confirm client business expectations and needs
ICAT5081B Perform systems test	ICAT3025B Run standard diagnostic tests
ICAT5082B Manage the testing process	ICAT5077B Develop detailed test plan

[#]   This unit has requirements.   Section 1.6 provides further details.

Innovation and Business Skills Australia

Pathways Information

Not Applicable

Licensing/Regulatory Information

Not Applicable

Innovation and Business Skills Australia

Entry Requirements

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The following units contain the basic fundamentals of ICT knowledge and skills for all qualifications at Certificate III in IT and above. These units or demonstrated equivalence are required for entry into this qualification:

BSBCMN106A   Follow workplace safety procedures
ICAD2012B   Design organisational documents using computing packages
ICAU1128B   Operate a personal computer
ICAU2005B   Operate computer hardware
ICAU2006B   Operate computing packages
ICAU2013B   Integrate commercial computing packages
ICAU2231B   Use computer operating system
ICAW2001B   Work effectively in an IT environment
ICAW2002B   Communicate in the workplace

Employability Skills Summary

Employability Skills Summary
ICA50305 Diploma of Information Technology (**Systems Administration**)
The following table contains a summary of the Employability Skills required for a Systems Administrator. The Employability Skills facets described here are broad industry requirements that may vary depending on qualification packaging options.

Employability Skill	Industry requirements for this qualification include:
Communication	• communicating clear concepts and solutions to complex issues in an unambiguous manner to colleagues and clients • using plain English literacy and communication skills in relation to analysis, evaluation and presentation of information, for example when developing polices and procedures • using report writing skills for business, requiring depth in some areas, and analysis and evaluation of information, for example when developing supporting documentation regarding maintenance issues
Teamwork	• participating in teams concerned with planning and evaluation functions • coordinating groups and teams
Problem Solving	• analysing and planning approaches to technical problems or management requirements • analysing error reports and making changes as required • comparing service standards and infrastructure discrepancies, identifying gaps in existing service and providing solutions
Initiative and Enterprise	• demonstrating creative skills in a range of complex situations

Employability Skill	Industry requirements for this qualification include:
	• participating in the development of strategic initiatives • transferring and applying theoretical concepts and/or technical or creative skills to a range of situations
Planning and Organising	• creating detailed task lists identifying the breakdown of the logical stages and sequence of work • preparing plans and determining impact appraisal costs to manage protection of assets
Self-management	• taking personal responsibility and autonomy in performing complex technical operations and organising others
Learning	• instructing clients on the security shield and their responsibilities according to enterprise security plan
Technology	• identifying technology needs, sourcing, purchasing, using and testing system components including software and hardware

Packaging Rules

Qualification Structure

To attain the ICA50305 Diploma of Information Technology (Systems Administration) 19 units must be achieved:

• 15 core units; plus
• 4 elective units

Achieve 15 Core Units
Core
BSBPMG505A   Manage project quality
ICAA5056B   Prepare disaster recovery and contingency plans
ICAA5151B   Gather data to identify business requirements
ICAA5158B   Translate business needs into technical requirements
ICAB5159C   Build a security shield for a network
ICAB5160C   Build and configure a server
ICAI5089B   Implement and hand over system components
ICAP5039B   Match IT needs with the strategic direction of the enterprise
ICAS5102B   Establish and maintain client user liaison
ICAS5111B   Review and manage delivery of maintenance services
ICAS5118C   Manage system security
ICAS5202B   Ensure privacy for users
ICAT5081B   Perform systems test
ICAT5082B   Manage the testing process
PSPPM502B   Manage complex projects
Achieve 4 Elective Units Chosen from the Following Sources   (Listed in Recommended Order)

- *ICA05 Information and Communications Technology Training Package* at Certificate IV (maximum of 2 units at Certificate IV), Diploma or Advanced Diploma; and/or
- ICT02 Telecommunications Training Package (at Diploma or Advanced Diploma); and/or
- any other Training Package (up to maximum 2 units) at Diploma or Advanced Diploma and based on documented industry or enterprise need
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