

# Install & Optimise Operating System Software

ICAI3020B



Ref No: DDICAI20B

## Elements of Competency

### Determine function of operating systems

- 1.1 Identify and demonstrate understanding of the purposes of the *operating system*
- 1.2 Distinguish between batch system, real-time system, multi-tasking system
- 1.3 Identify and demonstrate understanding of the basic functions of *operating system*, including file system, memory management, process scheduling
- 1.4 Identify and demonstrate management of virtual memory

### Obtain operating system

- 2.1 Contact *operating system* vendors to obtain technical specifications and system requirements
- 2.2 Document adjustment recommendations and provide to *appropriate person*
- 2.3 Determine and apply knowledge of licensing, hardware and security requirements

### Install, configure and optimise operating system

- 3.1 Install, configure and test the *operating system software* in accordance with installation procedures and *organisational requirements*
- 3.2 Optimise the system to meet *organisational requirements*
- 3.3 Document the system according to *organisational requirements*
- 3.4 Install the *operating system* with minimal disruption to *client* or users

### Provide instruction to meet new software requirements

- 4.1 Provide one-to-one instruction about changes to the *client* or users as required
- 4.2 Obtain *client* evaluation about new system to ensure requirements are met, using appropriate *feedback mechanism*

Number of Pages

77

Audience

This manual is aimed at people who are studying the Certificate III in Information & Communications Technology ICA30105. It covers the core unit of ICAI3020B Install and Optimise Operating System Software (Windows XP and Windows Vista). This manual is a learning resource and is not an assessment tool. An Assessment Tool & Marking Guide is available for this manual separately

Prerequisites & Corequisites  
Course Length

A sound Introductory knowledge computer hardware and software operations is required  
In a training environment this manual is suitable for approximately Three days.

Course Structure

The course contains instructor lead exercises as well as examples completed at the students' own pace. A course disk contains the necessary files to complete the manual.

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## **Operating Systems**

- How They Work
- Operating System Types
- Windows 2000
- Windows XP
- Windows Vista
- Novell
- UNIX
- MAC OS
- Batch Operating Systems
- Real-Time Operating Systems
- Multitasking Operating Systems
- Operating System Purchase
- Software Licences
- Sourcing Operating System Software
- Basic Operating System Functions
- Graphic User Interface
- File System
- Memory Management
- Managing Virtual Memory

## **Operating System Installation**

- Preparation
- System Requirements
- Install Windows XP
- Clean Windows XP Install
- Upgrading to Windows XP
- Install Windows Vista
- Clean Windows Vista Install
- Upgrade to Windows Vista
- Configuration
- Hardware and Drivers
- Sourcing Hardware

- Plug and Play (PnP)
- Non Plug and Play
- Loading Printers
- Default Printer
- Printer Properties
- Post Installation Checks
- Security
- Desktop Customisation
- Software Patches/Updates
- Documentation

## **Post Installation**

- Training
- Support Documentation
- The Delivery Plan
- One on One Instruction
- Computer Based Training (CBT)
- Basic Communication skills
- Sample Session Plan
- Feedback