



A.B.N. 20 055 388 988

www.visionfix.com.au

Vision Fix Software & Support Pty. Ltd.

9c High Street, Charlton, Victoria 3525

Mail to P.O. Box 185, Wedderburn, Victoria 3518

Telephone 03 5491 2009

Registered **TAFE** Training Organisation Number 6872

Centrelink Institution Reference Number 3P286

Thank you for your enquiry regarding our correspondence course “Networking for Home and Business”.

The correspondence course consists of nine lessons, each lesson provides a course manual of approximately seventy pages, followed by a twenty question assignment.

As with our classroom manuals, the correspondence course manuals are also updated every week to provide you with the very latest information. Manuals are only printed as required - we do not keep stocks of outdated course material.

Students that obtain an average mark of eighty percent over all nine assignments will receive a Vision Fix certificate in “Computer Maintenance and Networking”.

Furthermore, students that complete the practical work prescribed for the course will receive an accredited certificate, issued on behalf of the Victorian Registration and Qualifications authority.

This certificate is in the form of a Statement of Attainment in the following seven units from the Information Technology Training Package (ICA05) :-

ICAI3021B - Connect Internal Hardware Components

ICAI4029C - Install Network Hardware to a Network

ICAS3121B - Administer Network Peripherals

ICAS5122C - Identify and Resolve Network Problems

ICAS1193B - Connect a Workstation to the Internet

ICAI5173B – Install and Configure a single-segment LAN Switch

ICAI4097C – Install and Configure a Network

This means that if ever you decide to go on with further studies in Information Technology, you will receive credits for one or more of the above seven units.

The certificate is issued under the authority of the Victorian Registration and Qualifications Authority and bears the "Nationally Recognised" logo, meaning that it is recognised within all states in Australia and Commonwealth countries.

Course Cost

The cost for the correspondence course is \$259 which includes all of the lesson books, a licenced copy of Microsoft Windows Server 2003, a licenced copy of either Microsoft Windows XP Professional, Microsoft Windows Vista Business, Microsoft Windows 7 Professional, and the nationally recognised certificate.

Fees can be paid by returning the enclosed enrolment form and faxing or posting along with payment, or you can enrol over the telephone via credit card (Visa, Mastercard, or Amex).

How the course works

The following points give you information on the course structure :-

- Upon enrolment you will receive all nine lesson books for the course manuals, and the CD disks.
- Your assignments can be sent via email, or can be faxed or posted.
- There is no time limit for each lesson - you work at your own pace. We will continue to maintain your enrolment until you finish the course.
- On successful completion of all nine lessons, we will then send your certificate within seven days.
- Students who failed to achieve the pass mark may re-submit an assignment without extra cost.
- All assignments are assessed and returned within 48 hours.
- Correspondence students may ring the instructor at any time for advice if required, and are eligible to receive the ongoing telephone support service that is currently offered to our classroom students. There is no time limit for this support service.
- On completion of lesson number 9, you will have the option to complete the practical work assignment. This must be completed in order to be eligible for the accredited certificate.

Course Syllabus

- **Lesson 1 – Computer Hardware Fundamentals**

This lesson takes you through the basics of computer hardware so as to allow you to specify computers to serve as both workstations and file server/domain controllers on the network.

Topics include:-

- The latest microprocessors and specifications
- Processor sockets, level 1 and level 2 cache
- Hyper threading and hyper transport
- Processor fans
- The motherboard and chipsets
- PCI, PCI-e, SLI and AGP ports
- RAM – DDR SDRAM, dual channel DDR2, DDR3
- Hard drives – IDE, SATA-1 and SATA-2
- RAID adaptors
- Input/Output ports – parallel, serial,

TAFE
of Course

- USB, firewire
- Floppy drives, CD and DVD writers
- Video cards
- Modems
- The computer case and power supply
- The keyboard and mouse
- CRT and LCD monitors
- Operating systems

This lesson finishes with a comprehensive glossary of computer terms.

- **Lesson 2 – Network Fundamentals – peer to peer Networks**

This lesson covers:

- Network basics
- A brief look at Token ring
- The Ethernet system:
 - CSMA/CD
 - MAC addresses
 - Network cables - Thin Ethernet, thick Ethernet, CAT5, CAT5e, CAT6
- The difference between peer to peer and client/server networks
- The difference between Windows XP, Vista, and Windows 7
- Putting a network together
- Hubs, switches and routers
- Installing a network with Windows XP/Vista/Windows 7 - sharing files - mapping to a drive
- Setting up a network printer - via a computer port, via a switch and via a print server

- **Lesson 3 – Connecting a Network to the Internet, Networking with Windows 98, Wireless Networks**

This lesson covers:

- Sharing and Internet Connection with 56K, ADSL and cable modem.
- Setting up a network using Windows 98
 - Connecting the computers together
 - Sharing files and Printers
 - Connecting to a 56K or ADSL/Cable modem
- Installing a Wireless Network
 - Wireless network security
 - 802.11a,b,g,n and super G explained
 - CSMA/CA
 - Different types of wireless adaptors - PCI, PC-card, USB, WAP
 - Installing a wireless adaptor via Windows XP/Vista/Windows 7



- Configuring a bridge connection
 - Installing a PCI Ethernet card
 - Making a CAT 5e cable
 - Installing an RJ45 Wall Point
 - Miscellaneous Network Commands
 - Installing a removable hard disk cradle
- **Lesson 4 – Network Administration – TCP/IP**

This lesson covers:

- Administering and maintaining a network
 - Placement of network equipment
 - Naming conventions for workstations
 - A close look at client/server versus peer to peer
 - Hardware Maintenance
 - The Site Map
 - Maintenance Schedules
 - Backing up Network data
 - Troubleshooting and repairing network problems
 - An in depth look at TCP/IP
 - Classes of IP addresses
 - The subnet mask
 - DHCP and static IP addresses
 - The default gateway
 - The Domain Name System (DNS)
 - Automatic Private IP Addresses (APIPA)
 - MAC addresses
 - Sockets and Ports
 - The seven layer OSI model
 - Network Reports and Documentation
- **Lesson 5 – Client/Server Networks – Installing Windows server 2003**
- This first part of this lesson takes you through the administrative aspects of setting up a network for a client including:-
- Examine the network requirements.
 - Determine the equipment to be supplied
 - Obtain specifications, pricing and availability of equipment
 - Installing the hardware
 - Installing the software
 - Documenting and signing off the installation

The remainder of the lesson takes you the installation of Microsoft Windows Server 2003. Topics include:-

- The different versions of Server 2003
- Purchasing client access licences

- Windows Server 2003 concepts
- Partitioning and formatting the hard drive – RAID
- Creating a dual boot hard disk drive
- Installing a CD player and DVD/CD writer.
- Installing Server 2003:-
 - Setting static I.P. address
 - Installing the DHCP server and setting the scope
 - Installing active directory
 - Raising the domain and forest functional levels
 - Creating hard disk drive volumes
- Active directory – creating user accounts
- Uninstalling a domain controller

- **Lesson 6 - Setting up a Complete Client Server Network**

This lesson covers:

- Organisational units and Groups
- Setting up a client computer via Windows XP, Vista, and Windows 7
- Folders, Files and Permissions – shared drive volumes
- Controlling network printers
- Group policy management
- Setting up an ADSL or cable Internet connection
- The complete set up of a structured network.

- **Lesson 7 – Managed Switches and Troubleshooting Utilities**

The first part of this lesson covers layer two managed switches in detail, showing you the features that they provide.

The second part then gives you thirteen handy troubleshooting tools that can be used in the diagnosis of network faults. These include:-

- Installing the Windows standard 56K modem drivers
- Checking a hardware device via *Device Manager*
- Checking the CMOS settings
- Installing or replacing a network adaptor
- Disabling the Windows firewall
- Using the DOS **ping** and **ipconfig** commands
- Running the network wizard and Internet connection sharing
- Checking the TCP/IP settings
- Setting up an ADSL modem/router
- Setting up a router for a cable modem
- Installing a cable modem
- Installing a modem/wireless combination
- Checking a workgroup name via Windows XP/Vista/Windows 7

- **Lesson 8 – Troubleshooting Procedures for Networks and Modems**

This lesson covers:

- Four problem scenarios for networks without an Internet connection
- Three problem scenarios for networks with a 56K modem attached.
- Four problem scenarios for networks with an ADSL modem connection
- Four problem scenarios for networks with a cable modem attached.
- Three problem scenarios for networks with a wireless ADSL or cable modem attached.
- Troubleshooting issues specific to client/server networks

- **Lesson 9 – Performance Monitoring, Miscellaneous Equipment and Glossary**

This lesson covers:

- Using Task Manager with Windows XP/Vista/Windows 7
- Performance monitoring with Server 2003
- Creating performance logs
- Setting system alerts
- Monitoring event logs
- Ethernet over Power (EoP) devices
- Hardware Firewalls
- The binary and hexadecimal numbering system
- A complete glossary of networking terms

Please note that in order to carry out the practical work, you will need access to two computers that you can use to practice setting up networks on.

During the course you will be shown how to create a dual boot system with Windows XP and Server 2003.

At the end of each lesson there will be some practical exercises for you to try.



For any further information, please call me on (03) 9841 7077 or email to info@visionfix.com.au.

Regards

Alan Mulraney

General Enrolment Informational

Course participation

Material is studied at the students premises via correspondence, and there is no time limit for the submission of each lesson.

Course assignments must be submitted in a legible format, and if emailed, must be submitted either in Microsoft Word, or typed directly into the body of the email.

Students that do not contact Vision Fix for a period of one year will be deemed to have abandoned the course.

Support Services

At any stage during the course you will be able to contact your instructor, either by email, fax, post, or telephone to ask any questions, or discuss any problems that you may be having with the course material.

Students with special needs – access and equity

If you have any handicaps or disabilities please talk to us and we will endeavor to ensure that your needs are catered for.

Vision Fix has a code of practice that includes an access and equity policy. This document is available on request. It is the responsibility of all our staff to ensure the requirements of the access and equity policy are met by the organisation at all times.

Language, Literacy or Numeracy problems

Please note that this course is only available in the English language. If you have a problem with language or literacy, please talk to us prior to course commencement so that we can suggest a course of action. Note that there are virtually no requirements for mathematical skills in this course.

Welfare and guidance services

This course is Centrelink approved for the Pensioner Education Supplement (PES), which covers those that are of working age, but are not able to do so due to health problems.

Please contact your local Centrelink office or your job network agency for details as regards eligibility and level of assistance.

Recognition of Prior Learning

Students who believe they already have the competencies in the course may apply for Recognition of Prior Learning (RPL). An application for RPL may only be made after

enrolment and payment of fees and must be made using the application form that can be obtained from Vision Fix Software & Support Pty Ltd.

Assessment Appeals and other Grievances

Although Vision Fix has never had any issues relative to assessment disputes or complaints since the course was first run in 1995, the Australian Qualifications Authority standards require that we advise of procedures for the student to adopt if such a problem should occur.

In the first instance, the student should discuss the matter with the course instructor, which in most cases should resolve the problem.

If this fails, then a written complaint should be lodged to the Director, Vision Fix Software & Support Pty Ltd who will then take immediate steps to resolve the problem.

If this still does not resolve the problem then an independent arbitrator will be appointed to make a final decision, which will be provided in writing to both parties.

Relevant Legislation

A range of legislation is applicable to Vision Fix and all staff and students. Information on relevant legislation can be found as follows.

Occupational Health & Safety – www.business.channel.vic.gov.au

Equal opportunity :- www.eoc.vic.gov.au

Vocational Education & Training :- www.otte.vic.gov.au

Workcover :- www.workcover.vic.gov.au

Privacy :- www.privacy.gov.au

It is the responsibility of all staff to ensure the requirements of relevant legislation are met by Vision Fix at all times. Please use the web sites indicated or contact the training manager if you require further information.

Privacy

Personal Information is collected solely for the purpose of operating as a Registered Training Organisation under the Australian Quality Training Framework administered by the Victorian Government who are the registering authority. The requirements of the registering authority may require the release of your personal information for the purposes of audit.

Under the National Privacy Principles you can access personal information held on you, and you may request corrections to information that is incorrect or out of date. At any stage, you may request to view your student records. Requests must be in writing to your course instructor, and your record will be posted to the address given on your enrolment form.

The following courses contain units that are covered in the “ Learn to Repair, Upgrade and Build Personal Computers” course :-

Certificate I in Information Technology - E-Consumer

ICAS2014B - Connect Hardware Peripherals

ICAS1193B - Connect a Workstation to the Internet

Certificate II in Information Technology - Applications

ICAS2014B - Connect Hardware Peripherals

Certificate III in Information Technology - Network Administration

ICAS3121B - Administer Network peripherals

Certificate III in Information Technology - Client Support

ICAS3121B - Administer Network peripherals

Certificate IV in Information Technology

ICAS2014B - Connect Hardware Peripherals

Certificate IV in Information Technology - Database Administration

ICAS3121B - Administer Network Peripherals

Certificate IV in Information Technology - Helpdesk

ICAS2014B - Connect Hardware Peripherals

ICAI4029B - Install Network Hardware to a Network

Certificate IV in Information Technology - Network Management

ICAI4029B - Install Network Hardware to a Network

ICAI4097B – Install and Configure a Network



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Correspondence Course Enrolment Form
Networking for Home and Business

Comprising seven units from the Information Technology Training Package

**Course Fee \$259 – includes the course manuals,
CD disks and Certificate**

Victorian Student Number Only for students under 25 years old N = I don't yet have one ? = I have one but can't remember it		
Student Name		Sex (M/F)
Date of Birth		
Delivery Address		
Telephone	Home :	Mobile :
Email Address		
How did you hear about the course?		
Type of Credit Card	Mastercard <input type="checkbox"/> Visa <input type="checkbox"/> Amex <input type="checkbox"/>	
Credit Card Number		
Name on Card		
Expiry Date		
Windows Disk (please tick the one that you require)	Windows XP Pro <input type="checkbox"/> Windows Vista Bus <input type="checkbox"/> Windows 7 Pro (32 bit) <input type="checkbox"/> Windows 7 Pro (64 bit) <input type="checkbox"/>	

Cheques and money orders should be made payable to Vision Fix Software & Support

Please allow up to five working days for delivery by parcel post.