

## LONDON CAPITAL COMPUTER COLLEGE

## Certificate in Networking (107) – Windows Client Networking (XP)

Prerequisites: Basic knowledge in the use of	Corequisites: A pass or higher in Diploma in
Microsoft Windows Applications.	Information Technology or equivalence

Aim: The Windows Client Networking Course will provide comprehensive, hands-on application, use and training on a Windows client computer operating system for both beginning- and intermediatelevel students. Instruction will include: operating system installation and configuration; graphical user interface and command-line commands; hardware installation and configuration; file system management; user and group management; security configuration; network configuration and management; troubleshooting and disaster recovery. This course though not difficult, is technical, comprehensive and very hands-on. It does require a significant time investment by students both in and out of the classroom. The course provides students with the instruction necessary to support end users who run the Microsoft Windows operating system in a corporate, small business, or home environment. Key components include end-user and computer management, including installing and updating Windows, supporting local users and groups, managing hardware, configuring file and folder access, installing and configuring network printers, and troubleshooting network connectivity. Candidates will gain necessary knowledge to install, configure, and manage the Microsoft Windows operating system in standalone, small-network, and corporate-network environments. In addition, candidates will acquire techniques in installation methods and troubleshooting, network resource connection and sharing, management of security settings, hardware device installation and management, storage management, disaster recovery planning and management, and performance analysis.

Required Materials: Recommended Learning	Supplementary Materials: Lecture notes and
Resources.	tutor extra reading recommendations.

**Special Requirements:** The course requires a combination of lectures, demonstrations, discussions, and hands-on labs

and hands-on labs.		
Intended Learning Outcomes:	Assessment Criteria:	
1. Describe TCP/IP protocol configuration	1.1 Explore Windows networking operating	
as well as network membership for the different	system family	
Windows platforms that are in common use today.	1.2 Analyse features of Windows environment	
	1.3 Explore Windows user interface features	
	1.4 Discuss system requirements for client operating system	
	1.5 Describe networking models	
	1.6 Explore the architecture of Windows client operating system	
2. Explore the differences between 32-bit and 64-bit versions of Windows	2.1 Describe Windows operating system installation methods	
	2.2 Compare and contrast WINNT vs WINNT32	
	2.3 Describe partitioning, licensing and activating Windows operating system	
	2.4 Be able to install client operating system	
	2.5 Explore the process of booting multiple operating systems	
3. Describe the tools used to enable the	3.1 Explore control panel applets	
configuration of the client system BIOS after	3.2 Analyse Microsoft management console	
installation.	3.3 Describe Administrative tools	
	3.4 Analyse PC cards	
4. Windows client operating system	4.1 Compare and contrast basic vs dynamic	

properties and file and storage systems	storage
	4.2 Discuss functions of system drives
	4.3 Analyse FAT, FAT32 and NTFS file
	system
	4.4 Describe folder-level properties
	4.5 Describe Windows permissions and file
	sharing management
	5.1 Explore Windows client user accounts
	5.2 Describe different types of logon
	5.3 Analyse Windows client logon process
environment. 5	Be able to create and manage local user
	accounts
	5.5 Explore Windows system groups
	Be able to create Windows user profiles
	5.7 Analyse group policies
	5.1 Describe Windows client security model
, ,	Analyse key roles of logon
for users	authentication
	Explore access control mechanism
	5.4 Describe local computer policy 6.5 Compare and contrast domain security
	6.5 Compare and contrast domain security concepts vs local computer security
	6.6 Explore auditing features
	6.7 Describe file encryption
	5.7 Describe the encryption
7. Demonstrate each of the following	7.1 Describe Windows client networking
networking protocols; TCP/IPv4/IPv6, DHCP	features
	7.2 Explore client networking protocols
	7.3 Be able to configure TCP/IP services
	7.4 Explore interprocess communication
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8. Describe the technologies that enable	B.1 Describe remote access components
users to accomplish work-related tasks while	8.2 Explore the various remote access
working remotely at any time.	connection types
8	3.3 Analyse remote access security
8	Be able to implement internet connection
	sharing and firewall system
	8.5 Explore internet tools and utilities
8	Be able to troubleshoot remote access
	problems
O Describe the conduct of the	1 Emlan disease delles a delles
1 1	9.1 Explore client printing terminology
11	9.2 Analyse the client print subsystem
manage faxing and printing from Personal	architecture  9.3 Describe functions of printer driver
Computers (PCs).	9.3 Describe functions of printer driver software
	9.4 Explore network printing process
	9.5 Be able to install and manage printers
	9.6 Be able to configure and manage print
	server
	9.7 Be able to troubleshoot printing
	problems
9	9.8 Explore Windows client faxing
	capabilities
	, and the second
1	10.1 Describe windows client performance
functions in the client/server realm, supports	and manitaring to als
	and monitoring tools
	Be able to create a performance baseline
and accepts different communication protocols,	Be able to create a performance baseline Be able to analyse log activities
and accepts different communication protocols,	Be able to create a performance baseline

11. Demonstrate how Administration Client	11.1 Describe the Windows client system
for Application Support Facilities provides	architecture
interface and increase administrator productivity	11.2 Describe Win16 applications
and reduce the time required to implement	11.3 Describe Win32 applications
changes.	11.4 Describe DOS and virtual DOS application environment
	11.5 Explore Windows client management facilities
12. Describe the functions of the registry and	12.1 Describe the structure and functions of
demonstrate how to edit the registry and the	Windows registry
process of modifying settings for other programs	12.2 Describe the purpose of the registry keys
to make changes in the Registry itself	12.3 Be able to restore and protect the
	Windows registry
	12.4 Explore registry tools
13. Describe the activities during the boot	13.1 Describe the Windows boot process
process as the system tests the hardware, loads	13.2 Explore and troubleshoot startup options
and runs the operating in both disk and diskless	13.3 Analyse boot system configuration
network clients.	13.4 Be able to edit BOOT.INI file
	13.5 Explore multiple-boot systems
14. Demonstrate how to provide client	14.1 Describe intelliMirror technology
transparent fault tolerant system for system	14.2 Be able to use the Backup utility
applications.	14.3 Be able to perform preventive
	maintenance
	14.4 Explore the options for repairing
	Windows client system files

## **Recommended Learning Resources:** Windows Client Networking (XP)

Text Books	Client/Server Networking Protocols (Information Technology Report) by Jerry Cashin ISBN-10: 1566070236
	Client/Server Computing by Dawna Travis Dewire ISBN-10: 007016732X
	Testing Client/Server Systems by Kelley C. Bourne ISBN-10: 0070066884
Study Manuals	BCE produced study packs
CD ROM	Power-point slides
Software	Windows XP Client Operating System