



Dynamix Learning Solution Centres

Dynamix Centre
8 Milcliff Rd
SUNNINGHILL
Johannesburg
T: +27 (11) 234 5555
F: 086 539 5550

5th Floor, Tygerlakes
Tygerfalls, Carl Cronje Drive
TYGERVALLEY
Cape Town
+27 (21) 914 2878
086 609 2877

Ooba House
30 Waterkant Street
CBD
Cape Town
+27 (21) 418 8760
086 539 7323

P.O. Box 11383, BLOUBERGRANT, 7443

Sunninghill@Dynamix.co.za

Tygervalley@Dynamix.co.za

Cape@Dynamix.co.za

Microsoft
GOLD CERTIFIED

Partner

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COMMITTED TO SKILLS DEVELOPMENT IN THE ICT SECTOR
Accreditation No.: ACC02 000 077

www.dynamix.co.za

Convergence+ Certification

Days: 3

Publisher: CompTIA Press

Code: 1423957938

ISBN: 1423957938

Version: 1

Course Length: 3-days (18+ hours)

Prerequisites: Network+

What's in Convergence+ Certification:

This ILT Series course is aimed at convergence technicians who are preparing for CompTIA's Convergence+ certification exam. This course covers the full range of skills and concepts students need to learn, including PSTN, networking fundamentals, merging data and voice traffic, merging data and video, systems management and security.

Topic-Level Outline

Unit 1 : The Public Switched Telephone Network

*Topic A: * Making the call*

A-1: Examining the PSTN

A-2: Discussing calling features, digit translation, and toll fraud

*Topic B: * PSTN wiring and hardware*

B-1: Exploring PSTN wiring

B-2: Discussing PBXs

*Topic C: * Interoffice communication*

C-1: Exploring interoffice communications technologies

Unit 2 : Networking fundamentals

*Topic A: * The OSI model*

A-1: Discussing the layers of the OSI model

*Topic B: * TCP/IP networking basics*

B-1: Considering TCP/IP

B-2: Examining TCP/IP addressing

B-3: Exploring TCP/IP configuration options

B-4: Discussing the architectural model of TCP/IP

*Topic C: * Networking hardware*

C-1: Discussing twisted-pair cabling

C-2: Discussing coaxial and fiber optic cables

C-3: Discussing Ethernet devices

*Topic D: * Network architecture*

D-1: Describing networking models

D-2: Identifying the characteristics of various physical architectures

D-3: Discussing WAN bandwidth technologies

Unit 3 : Merging voice and data traffic

*Topic A: * Reasons to merge IP and voice traffic*

A-1: Exploring the reasons to merge voice and IP networks

*Topic B: * Packetizing voice*

B-1: Understanding digitization

B-2: Examining the IP packet structure

B-3: Examining TCP, UDP, and RTP

Unit 4 : Enabling VoIP

*Topic A: * VoIP architecture*

A-1: Understanding the VoIP environment

A-2: Selecting a call control protocol

A-3: Examining addressing issues

*Topic B: * Quality of Service*

B-1: Considering the components of QoS

B-2: Investigating the ways to add QoS to IP

*Topic C: * Hardware and applications*

C-1: Identifying IP telephony hardware and software

C-2: Examining VoIP applications

C-3: Making an Internet phone call with Skype

Unit 5 : Merging data and video

*Topic A: * Reasons to merge IP and multimedia traffic*

A-1: Exploring the reasons to merge multimedia and IP networks

*Topic B: * Adding multimedia traffic to an IP network*

B-1: Understanding video standards

B-2: Selecting the appropriate content distribution model

B-3: Understanding transmission methods

B-4: Selecting a transmission standard

B-5: Distinguishing between T.120 standards

*Topic C: * Network video hardware and software*

C-1: Selecting network video hardware and software

C-2: Making a video call with Skype

Unit 6 : Systems management

*Topic A: * Administering a converged network*

A-1: Considering administration tasks

*Topic B: * Network engineering*

B-1: Selecting appropriate hardware for your converged network

B-2: Evaluating network design factors

B-3: Analyzing network performance

*Topic C: * Troubleshooting and maintenance*

C-1: Discussing troubleshooting procedures

C-2: Selecting the appropriate tools and commands

C-3: Identifying symptoms and their causes

Unit 7 : Security

*Topic A: * Network security concepts*

A-1: Considering network security techniques

*Topic B: * Security devices and tools*

B-1: Discussing security devices and tools

Appendix A : Certification exam objectives map

*Topic A: * Comprehensive exam objectives*

Appendix B : CompTIA Convergence+ acronyms

*Topic A: * Acronyms list*