



The market leader Communications Training

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CTP Convergence Technologies Professional

5-day course

With countless technological advancements over the past five years, the convergence of communications technologies has grown at an exponential rate. Endorsed by the world's leading manufacturers of convergence solutions the CTP program provides an independent world recognised professional qualification for those involved in designing, installing and trouble shooting convergent networks.

The qualification covers the three core elements of :

- Data Networking
- Voice
- Convergence

According to the TIA 2006 Market Review and Forecast:

"In the Enterprise market the long heralded move to convergent technologies is now taking off, and the Internet Protocol (IP) equipment and IP based services are now replacing legacy technologies."

This 5 day program provides a thorough understanding and validates the inter-related elements, which form the CTP certification.

Course Overview

Data & IP Networking for Convergent Networks 45%

- Relate networking models and standards to convergence networking practices
- Identify appropriate local area network/wide area network (LAN/WAN) infrastructures
- Plan an Internet Protocol (IP) network
- Describe wireless networks
- Troubleshoot convergent networks
- Identify elements and benefits of LAN (VLAN)
- Define quality of Service (QoS)

Voice Services, Functions and Technologies 15%

- Define codecs and Pulse Code Modulation (PCM)
- Define Integrated Services Digital Network (ISDN) elements and concepts
- Identify common voice services and features sets
- Identify and troubleshoot problems with voice calls in digital and analog environments

Convergence Technologies 40%

- Identify essential elements of a convergent network
- Identify requirements for transporting text, voice, video, modem and fax through a convergence solution
- Identify methods for providing video services through a converged solution
- Explain how protocols such as Realtime Transport Protocol (RTP), Realtime Transport Control Protocol (RTCP), Session Initiation Protocol (SIP), H.323 and Media Gateway Control (Megaco) are used to carry and control convergent network traffic
- Identify convergence devices
- Troubleshoot common convergence technology
- Identify security issues for converged networks

80% Theory 20% Practical



▶ Qualification

On passing the online exam the delegate will gain the Convergence Technologies Professional (CTP) certification.
BICSI CEC's: 12 ITS, 30 RCDD, 30 NTS

▶ Who should attend

Convergence technology professionals, field technicians, voice technicians, network administrators, systems engineers, datacommunications technicians and technical sales professionals who need convergence skills to gain the knowledge to deploy and manage convergence technologies.

▶ Related Training

Practical LAN Design & Implementation
Advanced LAN Design & Network Engineering
Design of VoIP Networks

▶ Course objectives

Significant experience/knowledge in all three CTP domains. The ability to demonstrate knowledge of all skills covered in the CTP courseware.

Provide professionals with information, knowledge & techniques required to implement products and services in accordance with industry standards and establish Voice-over IP (VoIP) network requirements.

▶ Prerequisites

No formal qualifications are required however the CTP exam is designed to challenge communications professionals - 2 years industry experience is recommended.

▶ Course Location

Bury St Edmunds
Suffolk

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