

COMPTIA CTP+ COURSE



The **CompTIA CTP+ Course** is an officially endorsed course materials covering the full CTP+ Certification syllabus.

The CTP+ examination certifies that the successful candidate has the necessary knowledge to perform basic requirements analysis, and specify, implement and manage basic components of data, voice and multimedia convergence applications and understand basic problem analysis and resolution for converged technologies.

The CTP exam validates that an individual has the core knowledge and skills required by equipment manufacturers, their channel partners, and end-users to sell and service convergence technologies. The CTP+ certifies professional-level knowledge in three knowledge domains essential to the industry: Data networking, Telephony networking, and Convergence networking.

Convergence technologies refers to the merging disciplines of telephony and data networking to create support for new data types and services over networks. Convergence technologies professionals demonstrate knowledge in voice communication and data networking, as well as the convergence of voice and data on the same network.

Competency in these areas enables professionals to support services such as Voice over IP (VoIP) telephony, real-time presentation, conferencing, communication, and other services that combine voice and data, among offices in a single building or across the world.

The CTP+ course consists of the following items:

➤ **Data Networking Course Book**

The Data Networking course teaches students the fundamentals of networking. Through hands-on training, students will learn the vendor-independent networking skills and concepts necessary for entry-level professionals seeking employment in the Information Technology (IT) or telecommunications industries.

In Data Networking, students will learn to identify networking models and topologies, describe the function and purpose of network operating systems, and monitor system performance. Students will learn how various networking components map to the layers of the Open Systems Interconnection reference model (OSI/RM). Students will also learn about the process of packetisation; learn to identify key networking protocols; and explore the nature, purpose and operating essentials of protocols that make up the TCP/IP suite.

Students will learn about various LAN, WAN and wireless standards, and about wireless vulnerabilities and security. Students will explore the routing process, study Internet addressing, learn to identify address classes, learn about the use of private addresses, and learn to perform subnetting. Students will also learn how to use various TCP/IP diagnostic and troubleshooting tools.

Price:
£400.00

Instalment Options:
You can spread the payments for this course over 4 monthly payments. 1 initial payment of £175.00, followed by 3 monthly payments of £75.00.

Course Format:
4 Course Books & Online Access.

Assessment:
CompTIA CTP+ CN0-201
Examination

Approximate Study Time:
150 Hours of Self Study

➤ **Telephony Networking Course Book**

The Telephony Networking course provides detailed coverage of telephony standards and best practices for North America. Through hands-on training, students will learn the vendor-independent telephony skills and concepts necessary for entry-level professionals seeking employment in the telecommunications industry.

In Telephony Networking, students will learn about basic telephony concepts, including loop-start trunks, common telephony standards, and PBX elements. From Line A and Line B to exchange switches, students will learn how voice and data are routed across the global public switched telephone network.

Students will also learn about key infrastructure issues, including how equipment must be properly tested and secured. This course also focuses on specific troubleshooting techniques. Students will learn how to use common troubleshooting tools, including a digital multimeter, a tone-and-probe kit, a line-test handset (i.e., butt set), and other tools that allow you to wire analogue and digital lines. Finally, students will learn about analogue and digital signaling, including analogue loop-start methods, ISDN and SS7.

➤ **Convergence Technologies Course Book**

The Convergence Technologies course teaches students the fundamental concepts, standards and practices related to converged networks. Through hands-on training, students will learn the vendor-independent networking skills and concepts required for entry-level professionals seeking employment in the Information Technology (IT) or telecommunications industries.

In Convergence Technologies, students will learn to identify the characteristics of circuit-based and packet switched technologies, identify differences between the call flow in convergence-based calls and the call flow in circuit-based calls, and identify the types of signaling protocols for converged networks. Students will identify the transport protocols used for real-time communications, and learn about the functions of gatekeepers and gateways. Students will also compare and contrast the three major signaling protocols for VoIP. Students will learn how to determine whether an existing network is capable of supporting convergent services, and they will identify the specific elements required for a successful VoIP implementation.

Students will also learn about common convergence devices, learn about codecs and their bandwidth requirements, and describe the impact of compressing voice in a network. Students will learn about various wireless convergence technologies, identify standards for transporting facsimile across convergent networks, and identify the features unified messaging. Students will also identify methods for providing video services through a converged solution.

Students will define delay, latency, jitter and wander, and identify their impact on real-time communications; and students will also identify the importance of a jitter buffer. Students will learn about the need for Quality of Service (QoS) and identify QoS technologies used in converged networks. In addition, students will learn to identify the factors that affect the bandwidth of packetized voice, and identify requirements for transporting modem and fax transmissions through a converged solution. Students will also identify industry standards for determining voice and video quality, troubleshoot convergent communications over wireless networks, and identify security concerns and solutions.

➤ **CTP 2007 Exam Study Guide**

This official exam study guide will help you prepare for TIA exam TT0-201, Convergence Technologies Professional. This comprehensive exam study guide identifies and summarizes the key topics individuals must know to take the CTP exam.

The CTP exam study guide contains:

- CTP Exam overview and information on how to take the exam
- Complete listing of all exam domains, objectives and sub-objectives
- Summarized content sections for all sub-objective sections
- Sample exam questions for each objective area
- Key reading and Internet resources

CTP+ Online Access

CTP+ Online offers the tools you need to obtain the job-role skills required to master today's convergence technologies. Our goal is to help you get CTP certified so you can prove to employers that you have the knowledge they need.

At CTP+ Online, you have access to a variety of tools to supplement the Official CTP+ Courseware, including:

- Activities – Check your knowledge of course material with interactive exercises.
- Flash cards – Reinforce course material with review and practice.
- Course review quizzes – Assess your progress with lesson review and course review quizzes.

Pre-Requirements:

It is recommended that a typical candidate have CompTIA Network+ certification or equivalent knowledge, and 18 to 24 months of work experience in areas that include data networking, telephony, and other convergence related technologies, although these are not actual requirements.

Course Duration & Support:

Students may register at any time. The courses are designed as self-study courses but if you have any problems you can email our email support. As the course is self study you can complete in as little or as long a time as you prefer, and we do not impose a cut-off date for study.

Assessment:

Each delivery of the exam includes a random selection of 65 multiple choice questions. The examination period is 90 minutes. To achieve a passing score on the CNO-201 CTP+ examination, candidates must correctly answer at 75%.

Upon completion of the CTP+ examination, candidates will receive a score report from the testing centre and providing you are successful the certification will be sent to you by the testing centre.

Qualification:

On completion of this Course you can apply for the Internationally-Recognised CompTIA CTP+ CNO-201 Convergence Technologies Professional examination at any Authorised Testing Centre. The examination fee is £169.00 +VAT.

The CTP+ exam is published by CompTIA, and is available worldwide through Pearson VUE and Prometric testing centres. CTP+ exam candidates must complete a registration process with either Pearson VUE or Prometric, schedule an exam appointment, and arrange to pay the exam fee.



Exams must be sat at a registered Prometric or Pearson VUE testing centre. You can locate testing centres and schedule appointments on their Websites:

Prometric website – <http://www.prometric.com/>

Pearson VUE - <http://pearsonvue.com/>