

CHARTERED 
INSTITUTE OF PROFESSIONAL CERTIFICATIONS

CERTIFIED NETWORK SECURITY MANAGER™

CNSM™

**Fully Accredited
By:**

Chartered Institute of
Professional Certifications

CPD
Certification Service





PROGRAM OVERVIEW



Over the past 10 years, **over 30% of Fortune 500 companies** have experienced network breaches, resulting in an estimated US\$ 114 billion loss. This staggering loss is due to the lack of proper network security controls that made these companies vulnerable to being exploited by such attacks.

The Certified Network Security Manager (CNSM™) certification program offers a comprehensive and end-to-end solution to safeguard your organization's network security. Throughout the program, you will gain a deep understanding of the latest **threat intelligence and best practices for threat hunting**, equipping you with the knowledge and skills to identify and counter the tactics and techniques of modern attackers. You will also learn relevant **defense mechanisms to address your network vulnerabilities** and implement security policies and controls to mitigate them.

Participants will engage in hands-on labs and case studies to gain practical experience in **securing your data and fortifying your network protocols and services**, with a specific focus on protecting against emerging threats. In addition, you will gain an understanding of key components of **modern cryptography techniques** such as public key exchange, asymmetric and symmetric cryptography, and encryption & decryption, providing you the tools necessary to future-proof your network and safeguard your data against compromise.

The program also covers best practices for **incident management and incident response**, as well as strategies for identifying and mitigating the latest attacks. You will learn how to conduct **effective audits and drills to identify system vulnerabilities** before they are exploited by hackers.

Post completion of the program, you will be awarded with the **Certified Network Security Manager (CNSM™)** that can be used in your professional credentials. This certification is industry-recognized with lifelong validity and will help you distinguish your skillsets and you have attained expertise in deploying solid cyber security and network security framework.

ACCREDITATIONS



4.8




4.6



KEY SKILLS YOU WILL GAIN

From This Program



**INFORMATION SECURITY
NETWORK INFRASTRUCTURE
INTERNET INFRASTRUCTURE
STANDARD DEFENSE**

**ROUTING SECURITY
CYBER SECURITY
CRYPTOGRAPHY
NETWORK MAPPING**

**MALWARE PROTECTION
NETWORK SECURITY MODEL
WIRELESS SECURITY
IOT SECURITY**

**PASSWORD ENCRYPTION
DATA PRIVACY
IP SECURITY
CYBER RISK AND VULNERABILITY
PUBLIC KEY EXCHANGE**

**INCIDENT MANAGEMENT
INCIDENT RESPONSE**

YOUR FACULTY DIRECTOR



Curtis Weller

Cisco Certified Network & Information Security Expert

Curtis Weller is an internationally recognized network and information security expert with over **20 years' experience in network engineering and architecture**. He is also a **certified CCIE Security Writing, CCIE Routing & Switching #19109 and CCNP Security expert** and qualified trainer in providing Cisco switching, routing, and network security training. As an independent consultant for over 10 years, he has **consulted many Fortune 500 companies by helping them harness their network security framework, deploy Palo Alto Networks and Cisco products, and much more.**

OUR PARTICIPANTS

Over 70% of FORTUNE 500 Companies Have Attended Our Accredited Programs Before



Goldman Sachs



SAMSUNG



ExxonMobil



BURBERRY



citi



IKEA



VOLVO



HYUNDAI



Pfizer

Life is our life's work



Nestlé

PROGRAM AGENDA

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MODULE 1 - UNDERSTANDING NETWORK FUNDAMENTALS

- Switches, MAC Addresses
- Routers And IP
- ARP, Default Gateways, NAT And DNS
- IPv6

MODULE 2 - UNDERSTANDING NETWORK SECURITY FUNDAMENTALS

- Trusted And Untrusted Networks
- Trusted And Untrusted People
- Secure And Unsecure Data

MODULE 3 - COMMON AND CURRENT ATTACK VULNERABILITIES

- Uneducated Users Or Employees
- Old Or Unpatched Software

MODULE 4 - COMMON AND CURRENT ATTACK EXPLOITS

- Social Engineering
- Phishing
- Malware
- Ransomware
- Security By Obscurity?

MODULE 5 - UNDERSTANDING MOST COSTLY HACKS AND LESSONS LEARNED

- Sony PlayStation

- Hannaford Bros
- Target
- Veterans Administration
- Mafiaboy Attack
- Epsilon
- ExPetr / NotPetya

MODULE 6 - THE TRUTH ABOUT TODAY'S HACKERS

- Who And Where Are They?
- Do The Movies/TV Represent Reality?

MODULE 7 - THE PROBLEMS WITH PASSWORDS

- Common Passwords
- Social Media
- Rainbow Tables
- Brute Force And Password Length Ratio
- One-Time Passwords

MODULE 8 - HOW TO PREPARE FOR AND MITIGATE AGAINST ATTACKS

- Educate Users
- Patch OSs And Software
- Run Frequent, Unannounced Drills
- Providing The Least Amount Of Access
- Anti-virus/Malware Endpoint Software

PROGRAM AGENDA

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MODULE 9 - UNDERSTANDING TODAY'S ATTACK MITIGATION DEVICES AND HOW THEY WORK

- Firewalls
 - Access lists
 - Application and malware awareness
 - URL filtering
- Identity Based Network Access Methods And Solutions
- Directory And Certificate Servers

MODULE 10 - UNDERSTANDING THE VARIOUS COMPONENTS OF MODERN CRYPTOGRAPHY

Public Key Exchange

Symmetric vs Asymmetric

Public Key Cryptography And Trusted Third Parties

One Way Hash Algorithms

EXAMINATION

YOUR CHARTER DESIGNATION



Upon successful completion of the **Certified Network Security Manager (CNSM™)** program and passing the Chartered exam, you will earn the privilege to use the highly coveted and industry-recognized **CNSM™** designation that can be prominently displayed on your resume, CV, and other professional credentials. The CNSM™ designation holds global trademark and is valid for a lifetime, distinguishing you as an **expert in deploying robust cyber security and network security frameworks.**

The CNSM™ program will position you as a leader in network security and propel your marketability and earning potential. A recent survey conducted by The International Association of IT Asset Managers (IAITAM) suggests that **IT professionals with network security certifications earn an average of 16% more than those without,** demonstrating how certifications can improve a professional's career value.

ABOUT US

49,525

Business Leaders Have Attained Their Chartered Certifications Since 2009

390

Certified and Fully Accredited Programs

87%

Chartered Leaders Have Reported Career Promotions and Enhancements

Chartered Institute of Professional Certifications

All of Chartered Institute of Professional Certifications programs are fully accredited programs. The professional charters and designations are trademarked credentials that can only be used by professionals who have completed and passed our accredited program. It is also independently accredited by CPD as adhering to the highest standards of continuing professional principles.

CHARTERED IP
INSTITUTE OF PROFESSIONAL CERTIFICATIONS

OUR FACULTY DIRECTORS

We Collaborate With
Instructors From
Renowned Institutions



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UNIVERSITY



Wharton
UNIVERSITY of PENNSYLVANIA



Stanford University



UNIVERSITY OF MICHIGAN



**THE LONDON SCHOOL
OF ECONOMICS AND
POLITICAL SCIENCE**



**Columbia
Business
School**

**London
Business
School**



CONTACT US TODAY

We Thank You for Your Ongoing Support
of Our Programs

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