

# Security

## CYBER AND IT SECURITY

Cyber and IT Security is emerging as one of the most important elements in IT planning and implementation. The risk of viruses, unauthorised data access, uncontrolled emailed correspondence, data manipulation and misuse of access to the internet can seriously affect an organisation's reputation and potentially its financial stability.

This course offers a comprehensive, detailed look at Cyber and IT security and its effects on industry and commerce, presenting you with the methodology to approach and combat this increasingly prevalent problem.

### WHAT YOU WILL LEARN

- ▶ What is Cyber Crime – a definition and some important statistics
- ▶ What and where are the vulnerabilities
- ▶ How to measure the costs to companies and the economy of Cyber Crime
- ▶ IT crime investigating and computer forensics
- ▶ Understanding firewalls - integrated and external firewalls
- ▶ How to secure your network
- ▶ Concealing IP addresses
- ▶ Attack categories
- ▶ Vulnerabilities of systems
- ▶ Understanding the physical elements

## COURSE CONTENT

- ▶ Firewalls – hardware and software versions
- ▶ Using proxy servers and packet filtering
- ▶ Wireless networks and their vulnerabilities
- ▶ Encryption explained
- ▶ Hashing algorithm vs. encryption
- ▶ Networking address and port address translation
- ▶ Wire-tapping and port scanners
- ▶ Network wiring security
- ▶ Challenge/authentication techniques
- ▶ Using proxies to protect the network
- ▶ Security issues with IPv4 and IPv6
- ▶ IP VPNs, IPsec and SSL
- ▶ Transport and tunnel mode security
- ▶ Using NAT, PAT and VLANs in a network
- ▶ Spoofing, spamming, phishing, malware and viruses
- ▶ SMTP session hijacking, denial of service, cyber terrorism and identity theft
- ▶ Managing vulnerability
- ▶ Penetration testing
- ▶ Scanning and enumeration
- ▶ Critical security controls
- ▶ Passwords: strengths, weaknesses and cracking

“ Really enjoyed the course, found the practical sessions of value. ”

AWE PLC DELEGATE

## COURSE COST, DURATION AND AWARD



**BTEC Level 3** (optional)  
IT and Cyber Security



5 Days



**£1345** +VAT includes

Tavcom Certification. **BTEC**  
Certification is optional at an additional  
cost of £95 + VAT\*\*