



Tavcom Training

AWARD WINNING
Security Systems Training

Part of the



CCTV | IP Networking | Intruder Alarms | Access Control | Fire Alarms | Electro Technical

www.tavcom.com

The future is online training

Around the world, more and more students are turning to online training courses to acquire and develop their vocational skills...

Why train online?

- ▶ **ENJOY your studies anywhere and at any time.**
Global Internet connectivity has revolutionised the way we communicate, work and learn. Today you have total freedom to study on your own terms. Day or night. Evenings or weekends. Anywhere worldwide. You decide!
- ▶ **CHOOSE your own pace, according to your lifestyle.**
We all have different capabilities and different lifestyles. ONLINE training lets you be yourself. With no pressure to keep pace with your classmates, you can stop, start and revisit subjects as often as you like. It simply makes life easier!
- ▶ **RECEIVE personal, interactive support every step of the way.**
However remote your location, you will never be alone on a Tavcom ONLINE course. You will be assigned your own personal tutor, available by email, who will be there with support and guidance as you work through every module.
- ▶ **BENEFIT from huge financial savings over other forms of training.**
Bed and Breakfast. Hotel accommodation. Fuel. Air and train tickets. Days of lost income. These hidden expenses increase the cost of traditional classroom training. Study ONLINE and save. No early starts or traffic jams either!
- ▶ **GAIN internationally recognised and respected BTEC qualifications.**
A different form of learning does not mean a different qualification! Tavcom's ONLINE courses provide you with exactly the same professional qualifications as those awarded to our classroom students... Up to BTEC Diploma Level 5!

Contents

CCTV

Professional Practices of CCTV System Design	5
--	---

IP NETWORKING

Professional Practices of Security Network Design	6
CCTV Over IP Networking	9

INTRUDER ALARMS

Intruder and Perimeter Alarms	10
-------------------------------	----

ACCESS CONTROL

Access Control	12
----------------	----

ELECTRO TECHNICAL

Electronic Principles	15
Security and Emergency Lighting	16

CYBER SECURITY

Managing Cyber Crime	18
----------------------	----

FIRE ALARMS

Fire Alarm Design and Planning	21
--------------------------------	----

CONTINUAL PROFESSIONAL DEVELOPMENT

Bite Size Courses	23
-------------------	----



Professional Practices of CCTV System Design

BTEC Level 5 Diploma

Too many CCTV systems installed have never met the expectations from a quality, performance and compatibility standpoint and all too often proved to be a costly exercise without the desired end result. This tutor supported CCTV System Design course is designed to teach you all you need to know about the design, planning and commissioning of CCTV systems in a professional and confident approach.

This online BTEC Level 5 diploma course consisting of 12 interactive tutor led modules, provides you with a vast array of system design projects and assignments to gain that vital 'real world' experience, it also provides a deep underpinning knowledge of the elements that make up a CCTV system that will give you the necessary theoretical subject matter to undertake a concise and professional CCTV system design.

COURSE CONTENT

- ▶ Risk Assessment and the Operational Requirement
- ▶ Security Lighting
- ▶ Fundamentals of CCTV
- ▶ Cameras
- ▶ Lenses
- ▶ Housings, Control Equipment and Accessories
- ▶ Video Transmission
- ▶ Fundamentals of IP
- ▶ Video Recording and Storage
- ▶ Monitors and Display Screens
- ▶ Specialist Applications: (ANPR and Video Analytics)

Professional Practices of Security Network Design

BTEC Level 5 Diploma

The Professional Practices of Security Network Design Diploma is the ideal course for those looking to develop a deep understanding of IP and Networking issues.

This tutor supported course is intended for people with little or no knowledge of computers or IP networks. It is packed with the essential knowledge needed to design, plan and build effective fully operational IP based security solutions and most importantly learning about the pitfalls to avoid.

Over twelve fascinating modules you will cover the fundamentals of IP, networking and network security. Each module is supported by Self Assessment questions and throughout the course there are assessments and projects designed to check your learning progress. On completion of the course there is a final assessment and a detailed project to provide the opportunity for you to put the theory learned into practice.

COURSE CONTENT

- ▶ Bandwidth and Storage
- ▶ The OSI Model
- ▶ IP Addresses and Subnetting
- ▶ IPv6
- ▶ Local Area Networks
- ▶ Transmission Media
- ▶ Broadband
- ▶ Wi-Fi
- ▶ Routers and Routing
- ▶ Network Management
- ▶ Security

CCTV over IP Networking | BTEC Level 3

The rapid deployment of IP Networking, HD and Megapixel technologies is only being equalled by their rate of integration with other electronic security systems. The need to keep up to speed with the latest advances in technology has never been greater. This interactive online CCTV over IP networking course will give you the essential skills required to deal with one of the major challenges facing the electronic security industry – the change from Analogue CCTV to CCTV over IP.

Supported by your own online tutor and using a unique blend of essential theory and practical exercises, this fully interactive online course will give you the nearest alternative to traditional classroom training available today.

On successful completion of the course, you will receive an internationally accredited and recognised level 3 BTEC Advanced Award qualification.

COURSE CONTENT

- ▶ An Introduction to TCP/IP
- ▶ Lighting
- ▶ Cameras and Lenses
- ▶ Local Area Networks
- ▶ Bandwidth and Security
- ▶ IP Addresses and Subnets
- ▶ Digital Video
- ▶ Tools and Utilities
- ▶ Recording and Storage
- ▶ Transmission

Intruder and Perimeter Alarms | BTEC Level 3

This BTEC Level 3 course has been specifically designed to give you the knowledge and understanding required to be able to design cost-effective Alarm and Perimeter Detection systems that conform to the relevant international and national regulations.

As with all our professionally conducted training courses, your designated tutor is on hand to guide you through the necessary explanation of the components, the legislation, the Standards and the practical projects assigned to allow you to design alarm systems with compatible equipment that meet the latest standards.

COURSE CONTENT

- ▶ What are Intruder and Perimeter alarms Detection Systems
- ▶ Fundamentals of electronic principles
- ▶ Pan European Intruder Alarm Standards
- ▶ Wiring techniques, interconnections and free space transmission
- ▶ Detection devices
- ▶ Control and indicating equipment
- ▶ System signalling
- ▶ PIDS
- ▶ External detection techniques
- ▶ Fault finding and diagnostics
- ▶ Preventative and corrective maintenance
- ▶ Health and Safety



ACCESS CONTROL | BTEC Level 3

Electronic Access Control Systems are used to control the access and movement of people and vehicles. They can secure buildings and manage who, when and where has access and with the advent of IP systems can also now connect to building networks and be centrally managed.

Tavcom's interactive accredited online course will give you the skills to be able to plan and design effective and professionally installed integrated access control systems in both commercial and residential premises, meeting all of the Standards and Codes that govern the industry.

With full tutor support and an industry recognised BTEC qualification this course is ideal for those looking to enter the industry or refresh their skills.

COURSE CONTENT

- ▶ Standards and Surveying
- ▶ Entry Phones and Single Door Access
- ▶ Electronic and Wireless Door Locks
- ▶ Door Equipment including Barriers
- ▶ Hardware, Power Supplies and Cabling
- ▶ Software Functionality
- ▶ Fire Alarm Integration
- ▶ Commissioning



ELECTRONIC PRINCIPLES | BTEC Level 3

Having basic electronic knowledge is essential for anyone working in the Security System industry. Tavcom's online Electronic Principles course with a level 3 BTEC Advanced Award has been specifically designed for students with little or no knowledge of electronics, and will provide a good fundamental understanding of the basic concepts and electronic principles laws and components used within this industry.

Supported by your own online tutor, the course comprises 12 sections covering the information required by someone installing, servicing and maintaining security system equipment. Within each module there are a number of Self Assessment questions to show you how you are progressing and provide a way of testing yourself and ensuring that you have a good understanding of the subject.

COURSE CONTENT

- ▶ Volts, Current & Resistance
- ▶ Ohms Law
- ▶ Electronic Symbols and Components
- ▶ Series and Parallel
- ▶ Alternating and Direct Current
- ▶ Power Supplies and Batteries
- ▶ Circuit Protection
- ▶ Test Equipment and Measurement
- ▶ Health and Safety

SECURITY AND EMERGENCY LIGHTING | BTEC Level 3

The provision of supplementary lighting is essential to ensure that a CCTV system can capture high quality images day or night, and yet it is major component of a security solution which is quite often overlooked.

Specifying the correct lighting at an early stage of a project's lifecycle will ensure that time consuming return to site visits can be avoided at a later stage. Equally important, with so many types of lighting solutions available, the total cost of ownership of a CCTV system, as well as day-to-day running costs, can be minimised by the correct selection of the most suitable lighting to match the environment in which it will be working.

Well designed, properly installed and fully maintained security lighting is also important to illuminate the outside of domestic and commercial building in order to deter intruders, whilst good illumination at outdoor spaces such as railway stations and car parks can assist in the capture of CCTV images for evidential purposes. It also makes the general public feel safer.

This BTEC level 3 Security Lighting training course is aimed at anyone involved in designing CCTV systems that have a lighting requirement.

COURSE CONTENT

- ▶ The fundamentals of light including frequency and wavelength
- ▶ Light pollution and energy management
- ▶ Where light should be measured for CCTV cameras
- ▶ Legislation, Codes of Practice and governing bodies
- ▶ Perimeter, high security and commercial lighting
- ▶ System integration
- ▶ Emergency lighting
- ▶ Automated intelligent lighting systems and photocells
- ▶ Infra-red lighting including LED arrays
- ▶ Calculating power and distance



MANAGING CYBER CRIME | BTEC Level 3

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

COURSE CONTENT

- ▶ What is Cyber Crime?
- ▶ 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
- ▶ Email Protection. Address filtering and screening. Using untraceable email addresses
- ▶ How to identify malicious websites
- ▶ Understanding the physical elements – CCTV, privacy screens etc.

FIRE ALARM DESIGN AND PLANNING | BTEC Level 3

Learning how to carry out a Fire Risk Assessment is essential knowledge for those looking to work in the industry. This course will give you the ability to confidently carry out effective fire risk assessments meeting all of the latest Fire industry Standards and also provides a blend of theory mixed with installer tips and techniques covering conventional and analogue addressable fire alarm systems.

We also look at the Design, Installation, Commissioning, Maintenance and Integration with third party systems for example: access control systems and building management systems.

COURSE CONTENT

- ▶ Fire classifications
- ▶ The Regulatory Reform Order, Fire Industry Standards, bodies and inspectorates
- ▶ Fire risk assessment
- ▶ Fire alarm system design – detection types, zones, sound level requirements
- ▶ Installation (Theory and Practical) – conventional and analogue addressable systems
- ▶ Commissioning and handover of systems – configuration, testing and documentation
- ▶ Service and maintenance of systems
- ▶ Interfacing with ancillary equipment and integration with other systems
- ▶ Emergency lighting systems
- ▶ Remote signal options

CONTINUAL PROFESSIONAL DEVELOPMENT

Tavcom's Bite Size CPD (Continuing Professional Development) Courses are the perfect way for you to expand your knowledge of electro-technical and electronic security systems, whilst working towards obtaining a competency certificate that is accredited and endorsed by world renowned professional awarding bodies. You will be able to claim two CPD (Continuing Professional Development) points for each completed Tavcom Bite Size course, and after successfully completing all 12 modules throughout the year at a pace and time to suit you, you will be awarded a Tavcom Academy CPD competency certificate.

The Tavcom Academy is continuously adding new Bite Size courses to provide you with the flexibility to choose the topics that will fill gaps in your knowledge, in small size chunks to help you learn about issues which are relevant to your specific working environment. All of the Bite Size Courses are produced by our expert team of independent tutors and consultants. As you would expect from Tavcom, each meets the same exacting high standards of education that we have achieved worldwide with our BTEC and City & Guilds vocational training courses.



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A small selection of the organisations that have chosen to train with Tavcom

ABCA Systems Ltd	Eurovia Management Ltd	Optyma
Allsecure Services Ltd	Gratte Brothers Ltd	QA Limited
Astra Zenica	Historic Royal Palaces	Qatar Petroleum
Bank of Ghana	IC2 CCTV & Security Specialists	Quadrant Security Group Ltd
Barry Bros Security	International Electronic Security	Queen Alexandra Hospital
British Transport Police	Isle of Man Constabulary	Royal Borough of Kingston
Canary Wharf Management Ltd	London Borough of Redbridge	South Tyneside Council
Computacentre Ltd	MOD	Stanley Security Solutions Ltd
Custom Security Services Ltd	M J Security Systems	Sure Alarms Systems Ltd
Drake & Taylor	MBDA UK Ltd	Transport for London
Diamond Training Company Botswana	Mitie Security Ltd	University of Surrey
Digital Barriers	Natural Environment Council	Welwyn Garden Alarms
Elvey International	NHS Trust	Wigan Council

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