



## Introduction to IP Networking - 1 day course

### Overview

The security industry is changing rapidly whereby traditional CCTV systems are being combined with IP cameras over an IP network to create hybrid surveillance systems. In more and more instances, tenders are specifying for solely IP based video surveillance systems. This has created new opportunities to integrate security systems into existing data networks using well established technologies. In order to continue to compete and to increase business, security solution providers are taking courses with GVD to train their businesses in IP networking & video surveillance over IP.

### Objective

This course enables participants to understand the fundamentals of networks, hardware devices TCP/IP Ethernet networks and troubleshooting.

### Key Elements

#### What is a Network?

- Networking technologies overview
- LAN and WAN network topologies
- OSI model and TCP/IP protocol stack
- Ethernet, IP, TCP, UDP, FTP, RTP
- IP networks and subnets
- VLANS

#### Equipment hardware overview

- Server Types
- Video servers
- Video decoders
- Network Switches/Hubs
- Router
- POE (Power of Ethernet)
- Wireless Access Point (AP)
- Storage

#### TCP/IP

- Protocols
- Subnet Mask
- Gateway
- DNS

#### Network Security

- Understanding network speed
- Firewalls
- Remote access / Port Forwarding
- VPN – Virtual private networks

**Time:** 9:00 – 16.30. Tea/Coffee breaks morning/afternoon. Lunch 12.45 -13.45 (Lunch provided) - Free Wi-Fi access available during lunch hour.

**Venue Location:** National IP Experience Centre (nIPx), GVD Ltd. Westland House, Westland Business Park, Nangor Road, Dublin 12

#### Who is this course for?

CCTV installers, engineers, anybody thinking of getting into IP video surveillance

#### Course objectives

Provide a basic grounding in IP networks & video surveillance. Overview of networking & hardware devices

#### Qualification

nIPx certificate

#### Course Location

National IP Experience Centre, Westland House, Nangor Road, Clondalkin, Dublin 12

#### Cost

€275

#### Related Training Courses

- Hands on practical IP Networking
- Video Surveillance
- PC & Server Maintenance
- Intro to Wireless Networking





## BOOKING FORM

Complete form below and email [info@gvd.ie](mailto:info@gvd.ie) or FAX to 01 – 4242264

<b>Course Name</b>	Introduction to IP Networking		
<b>Date</b>			
<b>Cost per participant</b>	€275.00		
<b>Number of participants</b>			
<b>Total Cost</b>	€		
	<b>Participant #1 details</b>	<b>Participant #2 details</b>	
<b>First name</b>			
<b>Surname</b>			
<b>Email</b>			
	<b>Participant #3 details</b>	<b>Participant #4 details</b>	
<b>First name</b>			
<b>Surname</b>			
<b>Email</b>			
<b>CREDIT CARD DETAILS</b>			
<b>Name on Card</b>			
<b>Card Type</b>	Visa <input type="checkbox"/> Mastercard <input type="checkbox"/> American Express <input type="checkbox"/> Laser <input type="checkbox"/>		
<b>Card Number</b>			
	<b>Expiry Date</b>		<b>CCV Number</b>
<b>AGREED BY</b>			
<b>Name</b>			
<b>Position</b>			
<b>Company</b>			
<b>Phone</b>			
<b>Email</b>			
<b>Date</b>			

**Terms:**

In order to ensure places on the course 50% of the course fee is payable in advance by credit card/cheque when booking.  
**Cancellation Fee:** If the client cancels attendance at a course, notification must be provided **10 working days in advance** otherwise the remaining 50% will be billable with immediate terms for payment. The client can rearrange attendance at a course subject to availability but must give 10 working days notice.