

Suitability

This programme is suitable for participants with a basic level understanding of electronics, frequency bandwidths and signal distribution techniques in single dwelling properties. It is assumed participants have practical experience in the installation of terrestrial and satellite antennas as well as signal measurement parameters associated with both these areas.

Content

- Health & Safety considerations
- An overview of Intermediate home/small Commercial network methods
- Terminology associated with networking be it Domestic or Small Commercial Installations
- What is TCP/IP
- Elements of IP addresses IPV4 and IPV6
- How and what an IP address actually is
- A brief outline of Binary and Hexadecimal Communications
- Introduction to MAC Addresses
- Topologies of Networks within Domestic and Small Commercial Networks
- Give an Understanding of Computers and how they Communicate
- Where and when the Infrastructure of Networks Began
- Practical RJ45 connections
- Practical CAT 5e Patch Panel Terminations
- HDMI & HDBaseT distribution
- Basic Requirements and Installation of CCTV systems
- Introduction to DYNDNS and why it is required
- Practical Set up Of A Router for New IP address, Password
- Practical Setting up Fixed IP addresses and Relevance
- Practical Set up of Wifi networks
- Tools required.
- Interconnection to ancillary equipment.
- Best practice explained.

Learning Outcomes

At the conclusion of this programme participants will;

- Have an understanding of structured cable distribution techniques.
- Understanding of Computer Terminologies and Implementation of Levels of security within Networks
- Be able to competently terminate RJ45 connections on category cable.
- Set up of a Domestic Router for Basic Control.
- Wifi Management and Restrictions
- LAN restrictions and deployments
- Understanding of DYNDNS and why
- Assess Dwellings for the installation of CCTV and Quote.

Learning Style

This programme is classroom based by PowerPoint and contains a mix of practical demonstrations with hands-on learning exercises.

Aims

This programme delivers a understanding and insight into the various methods of home network distribution.

Objectives

This 2-day programme will enable participants to deliver signal around the home via correctly terminated category cables. Understand the Basic set up and Control of a Router within a Domestic and small Business Environment. To Understand the various types of Computer Network and What they mean for use within the working day. With a goal to being more comfortable when setting up a Router for various IP based systems, Such as CCTV, IPTV, Streaming etc. They will understand the difference between Multicast and Unicast which is going to become extremely prevelant within their working world.

Assessment Method

The assessment for this programme is by means of a multiple choice open book assessment paper with a pass mark of 65%.

Duration

This programme is run over 2-days

Programme Cost

Member Rate £390

Non Member Rate £600