

Intermediate Home Networking & Connectivity

Suitability

This programme is suitable for participants with a high level understanding of Data Cabling, Audio Visual equipment Installation and signal distribution techniques in single dwelling properties and small businesses. It is assumed that participants have practical experience in the installation of terrestrial and satellite antennas, and be comfortable with using a Laptop or computer.

Aims

This programme delivers a more in depth understanding of Data Networks, how to manage equipment within clients dwelling. They will learn about terminology involved with Data Networks and Internet Protocol (IP). Understand set up of Networking routers for adding equipment on to the clients Intranet. The course will cover enabling remote access to equipment within a clients dwelling.

Content

- Health & Safety considerations
- Look at Network testing tools
- To Understand Network and IP technology
- To Understand IP addresses, Binary and Hexadecimal.
- An overview of IPV4 IPV6
- Practical work on Laptops looking for IP and MAC addresses on a device and or Network
- Open Classroom Question and Answers Written on Board
- Practical set up on Routers of Static and Reserved IP addresses
- An in depth look at setting up remote access of equipment DYNDNS
- Describe and Discuss CCTV cameras and DNR and NVR CCTV recorders
- Interconnection of equipment within an Intranet
- Best practice explained

Learning Outcomes

At the conclusion of this programme participants will;

- Have an understanding of terminology involved with IP networks
- Be able to competently find equipment IP addresses.
- Set fixed IP addresses for equipment
- Change IP address on the DHCP server
- How to Change available IP addresses on a LAN
- Look at setting up Guest WIFI Networks
- Understand IP addressing
- Convert IP into Binary
- Understand CCTV systems and remote access for Phones etc IP and Analogue System differences

Required tools

A laptop that can be used without restrictions.

Objectives

This 1-day programme will enable participants to deliver signal around the home via correctly terminated category cables.

Learning Style

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

Assessment Method

The assessment method for this programme is by means of practical assessment exercises and a multiple choice open book assessment paper with a pass mark of 70%.

Duration

This programme is run over 1-day

Programme Cost

Member Rate £215
Non Member Rate £340