

# Digital Antenna Installation

Designed for new entrants to the communications industry, this comprehensive 2-day programme provides the technical knowledge and vital practical experience to enter the rapidly expanding and fast moving digital marketplace. Delegates learn broadcasting techniques and technology, how to install domestic and commercial digital television and information to allow progression into a fully trained and competent engineer.

No previous experience is required to attend and on successful completion delegates will have the knowledge, skills and practical expertise to commence a career in the installation and maintenance of digital antennas and digital television systems.

## Course Content

40% theory 60% practical

### Digital broadcasting & signaling

- Understand digital television broadcasting systems
  - Compress video transmission (MPEG-2 video)
  - Advanced audio coding
  - Carrier to noise ratio
  - Bit error rate
- Examining various types of connecting leads including Scart & S-video
- Examining various types of digital set top boxes

### Site survey & assessment at the subscriber's home

- Identify local frequencies & signals
- Identify the effects of interference
- Identify TV channels used in local area
- Describe Band II, through to Band V channels & frequencies
- Describe methods of locating the most effective transmitter
- Use test strength meters to determine signal strength

### Aerial mountings & fixings

- Describe procedures for mounting securing aerials in domestic buildings & commercial premises
- Health & Safety at Work Act including working at heights
- Safe mounting & installation of aerials using appropriate tools & mounting equipment properly

### Testing

- Describe the loss gain factors in aerial systems including practical usage of the Decibel in Aerial covering power gain and power loss
- Noise & interference, fault finding in signal reception equipment
- Carry out calculations in signal to noise ratio

### Customer care

- Demonstrate the ability to work with customers to identify their requirements & supply the appropriate products & services to exceed their needs

### Course duration

2 days

### Who should attend?

Those wanting to start a career in cable television and aerial installations

### Prerequisites

No previous experience necessary

### Course objectives

Delegates will have the technical knowledge and practical experience to install digital antennas and digital television systems and to progress within the industry to become an experienced engineer

### Qualifications

BTEC applied for  
CableNet certificate

### Course location

Academia House, Bury St. Edmunds,  
Suffolk, IP32 7AR

### Course requirements

None

### Related training

Fibre to the Home (FTTH)  
Fibre Optics in an External Environment



Data & LAN  
Technologies

Fibre  
Technologies

Residential  
Technologies

Security  
Technologies

IP Convergence  
Technologies

Mobile  
Technologies

Electrical  
Technologies