

**Description** This unit is concerned with safe working practices and the basic principles of communications systems.

**Venue** Centres: Melksham - Dunfermline - Peterborough - Lancaster - Surrey

**Duration** Depending on units selected—Either 5 or 9 days

## COURSE CONTENT

### Identify Safe working practices in communication systems

- ◆ Undertaking installation
- ◆ Carrying out preparation
- ◆ Precautions when carrying out a communications installation
- ◆ Terminating cable s

### Basic Principles of SI Units Symbols

- ◆ Basic SI Units
- ◆ Names and symbols for preferred SI prefixes
- ◆ Waves and wave motion
- ◆ Amplitude, wavelength , frequency and the unit frequency
- ◆ Relationship between velocity, frequency and wavelength

### Basic Principles of Communications Systems

- ◆ Types of communication systems
- ◆ Methods of communication
- ◆ Differences between analogue and digital signals
- ◆ Advantages & disadvantages of fibre versus copper

### Basic Principles of Data Communication

- ◆ Advantages and disadvantages of digital versus analogue
- ◆ Types of computer networks
- ◆ Advantages and disadvantages of serial versus parallel data communication