**Course Title**: 3667-02 Level Award in Communications Cabling
Unit 101 Principles of Communications Cabling

**Duration**: 2 Days

**Course Overview:**

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

**Delivery Method:**

Classroom instructor led with practical hands on exercises

**Objectives:**

At the end of this unit the student will be able to:

1. Identify safe working practices in communications systems
2. Describe the basic principles of SI Units and symbols
3. Describe the basic principles of communications systems
4. Describe the basic principles of data communication

**Content Headings:**

Identify Safe working practices in communication systems

- Undertaking installation
- Carrying out preparation
- Precautions when carrying out a communications installation
- Terminating cables

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

**Assessment:**
Assessment is by an online multiple-choice test