

**1. Module details**

**Module name**

**Buildings and Building Systems**

**Module duration**

It is expected that students with the appropriate entry knowledge and skills will successfully complete this module in 36 – 40 hours.

**Module code**

NUE003

**Discipline code**

**2. Module purpose**

This module aims to provide the student with skills to enable them to install telecommunications systems in a wide range of building types.

**3. Prerequisites**

Nil.

**4. Relationship to competency standards**

**5. Content**

**General safety, safe working and safe use and maintenance of hand and power tools, ladders, etc, in installation situations**

**Aspects of domestic building structures, building codes and regulations of interest to installers of telecommunications equipment and facilities**

**Aspects of commercial building structures and their construction of interest to installers**

**Safe use of explosive powered fixing tools in installing telecommunications equipment and fittings**

**Information for installers on dealing with advanced/difficult forms of building structures and systems**  
penetrations  
running cables  
fixing to a variety of surfaces

## 6. Assessment strategy

### Assessment methods

### Conditions of assessment

Learning environment: class/laboratory/building sites/industry  
 Lesson types: integrated approach using lectures, demonstrations, hands-on experience, site and industry visits and minor projects

## 7. Learning outcome details

### Learning outcome 1

**Demonstrate an awareness of general safety issues in an industrial situation. Safely use and maintain hand and power tools, ladders, etc.**

### Learning outcome 2

**Demonstrate an understanding of those aspects of construction and materials characteristics used in domestic (cottage) construction likely to impinge on the work of a telecommunications installer.**

### Learning outcome 3

**Demonstrate an understanding of those aspects of construction used in commercial buildings that are likely to effect the work of a telecommunications installer.**

### Learning outcome 4

**Demonstrate an understanding of regulations for use of explosive powered fixing tools. Identify installation situations where the use of explosive powered tools would be warranted. Safely use such tools in fixing telecommunications equipment and related fittings.**

### Learning outcome 5

**Describe procedures for penetrating, mousing, fishing, etc. suited to the efficient installation of cabling in difficult or unusual situations.**

## 8. Delivery of the module

### Delivery strategy

### Resource requirements

Practice in identifying different building structures, components, and construction methods.  
 Exposure to and practice with a wide range of hand and power tools suited to use in installation of telecommunications equipment and systems would assist in maximum skill acquisition.

### Occupational health and safety requirements