

## UNIT 22: PROGRAMMABLE LOGIC CONTROLLERS

Unit code: A/601/1625

QCF level: 4

Credit value: 15

### OUTCOME 1

This tutorial covers all of outcome 1. The material is quite suitable for anyone wishing to study this interesting subject and does not require a lot of mathematical knowledge. Obviously, access to suitable computer software such as Pneusim Pro™ or Bytronics™ simulation software will be a great help. You do need to have a reasonable knowledge of computer technology and a good background understanding of industrial processes.

### SYLLABUS

#### 1. Understand the design and operational characteristics of a PLC system

*Design characteristics:* unitary; modular; rack-mounted

*Input and output devices:* mechanical switches; non-mechanical digital sources; transducers; relays

*Communication links:* twisted pair; coaxial; fibre-optic; networks

Internal architecture: central processor unit (CPU); arithmetic logic unit (ALU); storage devices; memory opto-isolators; input and output units; flags; shift; registers

*Operational characteristics:* scanning; performing logic operations; continuous updating mass input/output (I/O) copying

Learning outcomes On successful completion of this unit a learner will:	Assessment criteria for pass The learner can:
LO1 Understand the design and operational characteristics of a PLC system	1.1 evaluate the design characteristics of typical programmable logic devices 1.2 describe different types of input and output devices 1.3 evaluate the different types of communication link used in programmable logic control systems 1.4 describe the internal architecture and operational characteristics of the CPU of a typical programmable logic device

### CONTENTS

#### 1. PURPOSE AND ORIGINS

#### 2. ARCHITECTURE and TERMINOLOGY

The CPU

Input Module

Output Module

Memory

Testing

Programming Methods

#### 3. STYLES

Unitary

Modular

Rack Mounting

#### 4. INPUT SENSORS

Voltage Sensing Relays

#### 5. OUTPUT DEVICES

Relays and Thyristors

#### 6. COMMUNICATING

Twisted Pair

Coaxial Cable

Fibre Optic

# Unit 22 Programmable Logic Controllers Unit Code A 601

**Michael Hoelscher**



**Unit 22 Programmable Logic Controllers Unit Code A 601:**

Delve into the emotional tapestry woven by in **Unit 22 Programmable Logic Controllers Unit Code A 601** . This ebook, available for download in a PDF format ( Download in PDF: \*), is more than just words on a page; it's a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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Volume of NaOH added (mL)	pH
4.6	4.4
6.4	6.5
9.5	9.5

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measured directly with a ph meter while titrant is added from a buret for the acids used in this experiment the titrant will always be a 0.1 M solution of the strong base NaOH

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