

## UNIT 22: PROGRAMMABLE LOGIC CONTROLLERS

Unit code: A/601/1625

QCF level: 4

Credit value:

15

### OUTCOME 3 PART 1

This work covers part of outcome 3 of the Edexcel standard module:

Outcome 3 is the most demanding of the outcomes and can only be affectively studied with the use of suitable hardware and/or simulation software such as PneusimPro™ or Bytronics™ simulation software. An industrial background will also be of great benefit to students. **The work is continued in part 2 where more advanced programming is covered.**

### SYLLABUS

#### **3 Be able to apply programmable logic programming techniques**

Write programs; use of ladder and logic diagrams; statement lists; Boolean algebra; function diagrams; graphical programming languages; production of a PLC

Advanced functions: less than; greater than;

binary to BCD conversion; proportional feedback control

Producing and storing text; contact labels; rung labels; programming lists; cross-referencing

Test and debug programs; forcing inputs, forcing outputs; changing data; comparing files (tapes, EPROM, disc); displayed error analysis

Associated elements: contacts; coils; timers; counters; override facilities; flip-flops; shift registers; sequencers

Learning outcomes On successful completion of this unit a learner will:	Assessment criteria for pass The learner can:
L03 Be able to apply programmable logic programming techniques	3.1 identify elements associated with the preparation of a programmable logic controller program 3.2 write programs using logic functions based on relay ladder logic 3.3 evaluate the range and type of advanced functions of programmable logic controllers 3.4 use and justify methods of testing and debugging hardware and software

### CONTENTS

1. Introduction
2. Tags , Labels and Identifiers
3. Flip Flops and Darlington Pairs
4. Flow Charts
5. Step Controllers
6. Function Diagrams - Grafcet-SFC

7. Ladder Logic Diagrams
8. Instruction Lists
9. Structured Text
10. Function Block Diagrams
11. Truth Tables
12. Boolean Algebra

# Unit 22 Programmable Logic Controllers Unit Code A 601

**M Mosston**



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

## Unveiling the Magic of Words: A Report on "**Unit 22 Programmable Logic Controllers Unit Code A 601**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Unit 22 Programmable Logic Controllers Unit Code A 601**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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