

Practical Maths for Electrical Installation Students & Apprentices

The Course at a Glance

Overview

A complete, ready-to-deliver maths programme designed specifically for **Level 2 and Level 3 Electrical Installation learners**.

Built to improve learner confidence, support achievement, and reduce lecturer workload through structured, practical delivery.

Who It's For

- FE Colleges delivering Electrical Installation (Level 2 & 3)
 - Apprenticeship providers
 - Training centres supporting trade learners
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The Problem It Solves

Many electrical learners struggle with maths due to:

- Lack of confidence
- Difficulty applying maths in practical contexts
- Gaps in foundational knowledge

This impacts progress, assessment performance, and lecturer workload.

The Solution

This course provides:

- Maths taught in **real electrical contexts**
 - Structured, step-by-step delivery
 - Consistent teaching approach across staff
 - Ready-to-use resources requiring minimal preparation
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Course Structure

10 structured units:

1. Basic Maths Fundamentals
 2. Fractions
 3. Decimals
 4. Percentages
 5. Ratios
 6. Powers and Standard Form
 7. SI Units and Conversions
 8. Basic Algebra
 9. Transposition of Formulae
 10. Trigonometry and Pythagoras
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Delivery Model

- **1 unit = 1 session (approx. 3 hours)**
 - Designed for classroom or workshop-based delivery
 - Suitable for mixed-ability groups
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What's Included

A complete teaching and learning package:

- Course Textbook (PDF)
 - PowerPoint Slides (Editable + PDF)
 - Student Worksheets
 - Answer Sheets
 - Teacher Notes
 - Lesson Plans (3-hour sessions)
 - Course Guide / Scheme of Work
 - Statement of Works
 - Final Assessment Pack (Questions + Answers)
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Key Benefits

For Learners

- Improved understanding of maths in electrical contexts
- Increased confidence
- Better assessment performance

For Lecturers

- Significant reduction in planning time
- Clear, structured delivery
- Consistent teaching resources across units

For Departments

- Standardised maths delivery
 - Improved learner outcomes
 - Scalable across multiple groups and lecturers
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Outcomes

Learners will be able to:

- Apply core maths skills to electrical scenarios
 - Solve problems involving measurements, calculations, and formulas
 - Demonstrate improved confidence in mathematical tasks
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Implementation

- Plug-and-play delivery — no redevelopment required
 - Can be integrated into existing programmes
 - Suitable as a standalone maths support course or embedded delivery
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Licensing

Available as an **annual licence per institution**:

- Single trade (Electrical or Plumbing & Heating)
 - Combined trade package available
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Summary

This is not just a set of resources.

It is a **complete, structured maths delivery system** designed to improve learner outcomes while reducing lecturer workload.
