

Practical Maths for Electrical Installation Students & Apprentices

ROI & Time-Saved Justification

Purpose

This document outlines the practical return on investment (ROI) and time-saving benefits of implementing this maths delivery system within an FE department.

The Reality in FE Delivery

Without structured maths resources:

- Lecturers create or adapt materials individually
 - Delivery quality varies between staff
 - Significant time is spent planning maths support
 - Learners struggle to apply maths in trade contexts
 - Additional support is often required
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Time Cost Without This Course

Typical lecturer time spent on maths delivery (per unit):

- Planning and preparing lesson content: **2–3 hours**
- Creating/adapting worksheets and examples: **1–2 hours**
- Structuring delivery: **1 hour**

Total per unit: 4–6 hours

Across 10 units:

40–60 hours of lecturer time

With This Course

All materials are pre-built and aligned:

- Lesson plans provided
- Slides ready to deliver
- Worksheets and answers included
- Teacher notes guide delivery

Preparation time per unit: 15–30 minutes

Across 10 units:

2.5–5 hours total

Time Saved

Approx. 35–55 hours saved per lecturer

Financial Interpretation

Assuming a conservative lecturer cost of:

- **£30 per hour**

Time saving value:

£1,050 – £1,650 per lecturer

Course Cost Comparison

Typical pricing:

- **£299 (single trade)**
 - **£499 (combined trades)**
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Return on Investment

Even at the lower estimate:

£299 investment → £1,050+ time value returned

This represents:

3x–5x return on investment (minimum)

Additional Value (Not Easily Quantified)

1. Improved Learner Outcomes

- Better understanding of key maths concepts
 - Increased confidence
 - Higher likelihood of course completion and success
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2. Consistency Across Staff

- Standardised delivery regardless of lecturer experience
 - Reduced variation in teaching quality
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3. Reduced Lecturer Workload

- Less planning pressure
 - More time available for learner support
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4. Faster Onboarding of New Staff

- New lecturers can deliver immediately
 - No need to build materials from scratch
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Department-Level Impact

For departments with multiple lecturers:

- Time savings multiply across staff
 - Delivery becomes consistent across groups
 - Resources can be reused year-on-year
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Implementation Simplicity

- No redevelopment required
- No training required

- Immediate use in classroom settings
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Summary

This course is not an expense.

It is a **time-saving and performance-improving investment** that:

- Reduces lecturer workload
 - Improves learner outcomes
 - Standardises delivery
 - Delivers a clear financial return
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