

Practical Maths for Plumbing & Heating Students and Apprentices

Course Guide

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Welcome

Welcome to the Practical Maths for Plumbing and Heating Students and Apprentices course. This programme is designed to help learners build confidence with the maths skills used in practical plumbing and heating work.

Course Purpose

The course develops the mathematical skills required for measurements, costing, formulas, calculations and problem solving within plumbing and heating.

Units Included

- Unit 1 – Basic Mathematical Operations
- Unit 2 – Fractions
- Unit 3 – Decimals
- Unit 4 – Percentages
- Unit 5 – Ratios
- Unit 6 – Powers and Standard Form
- Unit 7 – SI Units
- Unit 8 – Algebra
- Unit 9 – Transposition of Formulae
- Unit 10 – Trigonometry and Pythagoras

How the Course Will Be Delivered

Lessons are designed around classroom and workshop theory sessions using PowerPoints, worksheets, worked examples and plumbing and heating scenarios.

What Learners Will Need

- Calculator
- Pen and notebook
- Course workbook
- Access to lesson materials
- Positive approach to practising maths skills

Assessment

Learners will complete worksheet activities, practical calculations, recap activities and tutor-led questioning throughout the course.

Homework and Revision

Learners may be asked to complete additional practice questions and revision tasks between sessions to reinforce confidence and understanding.

Learner Expectations

Learners are expected to attend regularly, participate in activities, attempt calculations independently and ask for support where required.

Why Maths Matters in Plumbing and Heating

Maths is used daily in plumbing and heating work for measurements, pipe runs, system calculations, water volumes, costing, ratios, angles and installation work.

Course Outcomes

By the end of the course learners should feel more confident using maths within vocational settings and applying calculations to real plumbing and heating tasks.