

Embedding Maths in a Health and Social Care Level 2 Course Trial Specification

Multiply is the government's flagship programme for improving adult numeracy.

Since the programme began in 2021, there have been over 67,000 course starts. To build on the success of the programme to date, the Department for Education is developing a programme of trials that will be rolled out in 2024 and 2025, to strengthen the evidence base by testing the effectiveness of existing and new approaches to improving adult numeracy.

The aim of conducting research trials is to generate new, high-quality evidence on what works in adult numeracy, to fill evidence gaps and to support broader efforts to ensure the value for money of spend in adult education by ensuring funding flows towards approaches underpinned by a good quality evidence base. You could be involved by joining this trial.

Interested but need more info? Express your interest:

<https://www.multiply.tribalgroupp.com/current-trials>

Ready to sign up? Complete this registration form:

<https://forms.office.com/e/s72vz7DpPP>

The Trial

This trial is designed to build skills and confidence in maths through embedding vocationally relevant numeracy within a Health and Social Care (H&SC) Course. The approach is to expose the maths as something which is integral to the course so that learners understand the relevance to their future careers. The maths is derived from the numeracy skills required on the H&SC course and how these skills are used in the workplace. The materials address the key numeracy demands of the course and those skills which vocational teachers have highlighted as causing difficulties to learners.

Examples of the embedded maths included in this approach are:

1. Statistics and Data - teaching learners to collect, analyse and interpret healthcare related data and explore statistical concepts like averages and percentages
2. Dosage Calculations – integrating practical examples of dosage calculations for medications and treatments, and emphasising the importance of accuracy in dosage calculations to prevent medical errors
3. Budgeting and Resource Management – use mathematical concepts to analyse budgets and allocate resources and make informed decisions
4. Clinical Measurements - explore the importance of accurate measurements in healthcare settings, such as body mass index (BMI) and vital signs and teach learners how to interpret and apply measurement data in H&SC context.

What we hope to achieve

- Teachers develop new teaching practices that they can apply within existing H&SC curriculum hours.
- Teachers improve their maths subject knowledge and are confident to teach maths in the H&SC curriculum.
- Learners can identify maths in the H&SC curriculum and workplace. Learners use appropriate maths skills and knowledge to complete vocationally related maths tasks, including problem solving.
- Improvement in learners' mindset and attitudes towards maths. Learners can apply appropriate maths within a workplace task. This will be measured through self-report data in the IPE primary data collection.

What will be delivered?

This intervention involves delivering **12 x 1.5-hour lessons** covering the most important concepts of Functional Skills Level 1 to adult learners working towards a Health and Social Care Level 2 qualification (please see below for list of eligible qualifications).

This will be achieved by teachers engaging with a comprehensive package of training (professional development) that explains the approach and its rationale.

The lessons cover the most important mathematical concepts of the H&SC course mapped to the Functional Skills Level 1 curriculum. The intention is to enable teachers to embed maths into their vocational teaching effectively.

The intervention is designed to be delivered by teachers (face-to-face or online) teaching of adult Health and Social Care Level 2 classes.

Who will take part?

Providers should:

- Be adult learning organisations delivering Level 2 Health and Social Care Courses adult learners (19+) in **England**.
- Deliver eligible Health and Social Care Courses are diplomas or certificates, not apprenticeships (please see below for examples), and run for at least 12 weeks.
- Have classes of around 5-20 adult learners. If you have less than this, please still apply. 1:1 teaching would not be suitable.
- Have teachers willing to participate in the trial.

Participants should be:

- An adult, aged 19+
- Enrolled in Health and Social Care Level 2 course from September 2024.

Teachers should be:

- Teaching Health and Social Care Level 2 course from September 2024.

Teachers will receive training on how to deliver Embedding Maths classes prior to the start of the 2024-2025 academic year.

Teacher Training

High quality teacher training and resources will be provided by Education and Training Foundation (ETF) which includes a comprehensive training package of lesson plans, schemes of work, training materials.

Duration: 4 x 2.5hours online plus weekly ongoing training during the trial.

Training dates:

- **Option 1: 20, 21, 27, 28 June**
- **Option 2: 9, 10, 11, 12 July**
- **Option 3: 5, 6, 12, 13 September**

If you have signed up for this trial, please register your teachers for training here: [Embedding maths | ETF Booking \(etfoundation.co.uk\)](https://www.etf.foundation.co.uk/Embedding-maths)

If you cannot attend the training dates above, there will be catch up sessions scheduled around the end of August/ start of September.

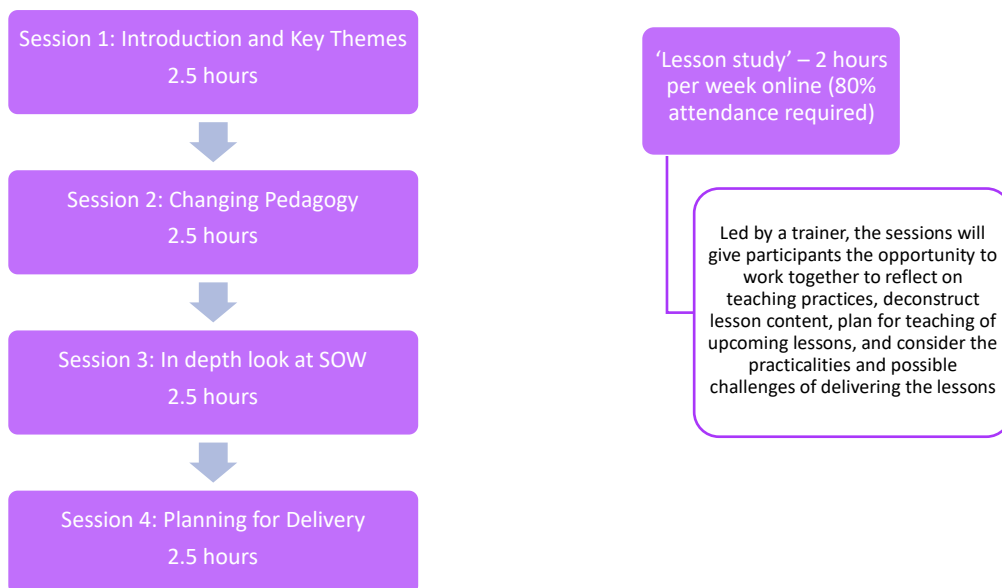
Timeline of Training

Pre-Trial Training

- 100% attendance required
- 4 sessions
- online

During Trial – ‘Lesson Study’

- 80% attendance required
- Weekly sessions
- Online



What is expected from a provider?

Below is a list of **compulsory activities** that we would expect learning organisations or providers to complete as part of the trial. These will be outlined in the contractual agreement as well.

- Share trial documentation with teachers and learners including information sheets explaining the purpose of the research and the course materials (for those selected to be in the treatment group).
- Collect details of learners who opt out of participating in the trial.
- Report to Tribal and Ipsos on learner and teacher numbers and meet with Tribal to raise any risks to recruitment or delivery.
- Collect and share attendance data to Evaluator of learners that take part in the trial.
- Ensure that teachers attend the training.
- Ensure delivery of the Embedded Maths in Health and Social Care course as specified.

Additional optional evaluation activities for learners and teachers that we would hope learning organisations would support in promoting / administering:

- Learner survey(s)
- Interviews with teachers
- Interviews with learners

Data will be collected by the evaluator from Individual Learner Record on H&SC course completion and qualification attainment and will not need to be provided by the learning organisation.

Funding and Incentives

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| Admin premium | 10% premium of the <u>planned</u> learner numbers (based on intervention costs) to support learner recruitment, submission of trial data, trial training and travel expenses. |
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| Intervention costs | <p>£7.20 per additional guided learning hour (GLH) based on <u>recruited</u> number of learners to support delivery of the intervention.</p> <p>There are 18 GLH (intervention hours) in this trial. We would expect 5-20 learners in this trial.</p> <p>Plus, area cost and disadvantage cost uplifts will be added, as applicable.</p> |
| Additional benefits | <p>Providers will receive a £1000 one off payment.</p> <p>Teachers will receive free, high-quality training on how to implement the lessons.</p> |

Worked Example:

GLH (intervention hours) = 18

Number of adult learners = 20

Cost per guided learning hour = £7.20

Intervention costs: $GLH \times \text{number of learners} \times \text{cost per GLH} = 18 \times 10 \times £7.20 = £2,592$

Admin premium: 10% of £2,592 = £259.20

Additional benefit: £1000

Total = £3,851.20

Incentives:

- Free teacher training for all teachers in the trial.
- A series of optional informational/best practice seminars will be run throughout the trials.
- A 'learning platform' for participating providers will be established.
- Local Areas –early / emerging findings will be shared as they become available with local areas
- Learner incentives (offered by Evaluators) –a £30 shopping voucher will be offered as an incentive for learner participation in depth interviews.

Examples of Health and Social Care Level 2 Qualifications

Your Health and Social care course will be a **diploma or certificate** awarding course, here is a list of examples. Unfortunately for this trial, apprenticeship courses are not eligible.

Please contact multiply@tribalgroup.com if you are interested in the trial but are unsure of your eligibility.

Award in Skills for Professions in Health and Social Care

BTEC First Award in Health and Social Care

BTEC First Certificate in Health and Social Care

BTEC First Diploma in Health and Social Care

BTEC First Extended Certificate in Health and Social Care

BTEC Tech Award in Health and Social Care

Cambridge Technical Certificate in Health and Social Care

Cambridge Technical Diploma in Health and Social Care

Certificate in Health and Social Care

Certificate in Health and Social Care Professions

Certificate in Skills for Health and Social Care (Adults and Children)

Certificate in Skills for Professions in Health and Social Care

Diploma in Health and Social Care

Diploma in Health and Social Care (Adults) for England

Diploma in Health and Social Care (Adults) for England (RQF)

Diploma in Skills for Health and Social Care (Adults and Children)

Diploma in Skills for Professions in Health and Social Care

Extended Certificate in Health and Social Care

Extended Certificate in Health and Social Care Professions

Extended Certificate in Skills for Health and Social Care (Adults and Children)

Extended Diploma in Health and Social Care

Vocational Award in Health and Social Care

FAQs

Do I have to already be involved in the Multiply programme to participate?

No - local areas and providers do not have to be a recipient of Multiply main programme funding to be involved in the Multiply Research Trials.

Can I take part in more than one trial?

Yes, we welcome expressions of interest to participate in more than one trial. There are perks of being involved in both, including financial remuneration (see above).

How many adult learners does my organisation need to participate on the trial?

There is no minimum number set for the trial however trials are not designed for 1:1 teaching. As a guide, we have estimated group sizes between 5 and 20 for this trial and we

ask that you to let us know the number of learners and teachers you expect for the cohort on registration.

Will we receive the training materials for the products?

Yes, you'll receive all the training materials, including lesson plans and ongoing support from Education and Training Foundation. You will find out more in the training sessions.

Useful links

Questions? Please contact Multiply@etioglobal.org

Multiply Trials website: [Multiply Education Research Trials | Home \(etioglobal.org\)](https://etioglobal.org/multiply-education-research-trials/)

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