



## Teaching Statistics 2 (TS2)

9th February 2022

### Overview

Teaching Statistics 2 (TS2) is a [sustained professional development course](#) for teachers wishing to further build their confidence in teaching statistics. TS2 covers most of the statistics content from all major specifications for AS/A level Further Mathematics.

TS2 consists of:

- 12 live online tutorials
- Two compulsory study days
- A textbook to support your studies
- Access to our online Integral platform, including course-specific teaching and learning resources
- Email support from a tutor and access to an online group forum

Towards the end of the course a short assignment is issued, for which support and guidance are provided. Course certificates will be available for those participants completing the assignment.

In order to enrol on the TS2 course, participants should have a reasonable understanding of the statistics content of AS/A level Mathematics, ideally through having completed [TS1](#) although this is not compulsory.

Between them, the TS1 and TS2 courses cover the majority of the content of A level Statistics.

### Aims

- Gain a deeper understanding of statistics
- Continue to develop confidence and skills to teach statistics for AS/A level Further Mathematics, focusing on subject knowledge and effective pedagogy
- Continue to develop confidence in working with technology to aid understanding of statistical concepts

### Who will benefit from attending?

TS2 is designed for teachers who are currently teaching A level Further Mathematics, or who wish to teach it at some point in the near future.

Our sustained courses enable teachers to broaden and deepen their subject, pedagogical and pedagogical content knowledge. Teachers, with enhanced subject knowledge, are therefore better equipped to make links between topics, address students' misconceptions and confidently challenge learners at all attainment levels. Our course aims and intended outcomes are consistent with the principles set out in the Education Inspection Framework.

### Content

TS2 covers most of the statistics content for AS/A level Further Mathematics and also A Level Statistics.

## Materials and Equipment

A computer with a reliable internet connection will be required to attend the online tutorials. In addition, a headset or earphones with a microphone is suggested to get the best experience of the online tutorials

## Frequently Asked Questions

### How much time will I need to devote to studying

It is difficult to be specific as this will depend on previous experience. In the past, delegates have reported spending between 1 and 4 hours studying each week. Ideally, delegates should aim to study regularly for a few hours each week however, in reality many working teachers have weeks when this is difficult and they use out-of-term time to catch up.

It is not our usual policy to allow teachers to enrol on more than one sustained course (TAM, PALM, TFM, TM, TS, TD) at the same time. Please contact us at [cpd@mei.org.uk](mailto:cpd@mei.org.uk) before making multiple course applications.

### Do I have to hand in any work during the course?

The TS2 assignment is the only work that delegates hand in. The assignment requires you to answer questions based around data sets and probability. Use of technology is encouraged and an explanation of how the topics could be introduced and taught in the classroom is expected. To receive a certificate at the end of your TS2 course you will need to submit and pass the TS2 assignment. Certification is optional but we strongly encourage you to submit an assignment anyway to help you consolidate what you have learnt. In the past most teachers have chosen to submit an assignment.

### Where do study days take place?

We vary face-to-face study day locations. Recently study day locations have included London, Coventry, Manchester or Leeds.

## Eligibility

Participants must have a reasonable understanding of the statistics content of AS/A level Mathematics, ideally through having completed [TS1](#) although this is not compulsory

## Cost

This course is free of charge to teachers working in state-funded schools and colleges in England. For others the course fee is £300.

Schools and colleges located within [Priority Areas](#) are eligible to receive a subsidy of £250 per study day.

## Study Schedule

This study commitment for this course is 12 live online evening tutorials and 2 face to face study days.

### Study days

You must be able to attend both study days.

#### Study day 1

#### Coventry

Saturday 26 March 2022

#### Study day 2

#### Coventry

Saturday 18 June 2022

**Please note that all arrangements are subject to public health guidelines.** If there are travel restrictions in place face-to-face study days may be moved online.

### Online sessions

Online sessions are conducted live from 19:00-20:00 and recordings are available for playback

Evening online tutorials (19:00-20:00)	Study content
Wednesday 9 February 2022	The central limit theorem
Wednesday 2 March 2022	Hypothesis Testing: the t distribution
Wednesday 16 March 2022	Random variables 1
Wednesday 30 March 2022	Random variables 2
Wednesday 27 April 2022	Further probability distributions
Wednesday 11 May 2022	Comparing two groups
Wednesday 25 May 2022	Chi squared tests
Wednesday 8 June 2022	Correlation and Regression
Wednesday 22 June 2022	Probability generating functions
Wednesday 29 June 2022	Non-parametric tests
Wednesday 13 July 2022	Testing for equality of variance
Wednesday 20 July 2022	Analysis of variance

### Assignment

During July and August you will work towards completing an assignment. The deadline for this assignment is 31 August 2022.

Unit certification: 30 September 2022 (or before).

## Key Facts

<b>Event ref:</b>	#9058
<b>Audience:</b>	Teachers
<b>Curriculum focus:</b>	A level Further Mathematics
<b>Mathematical focus:</b>	Statistics
<b>Event format:</b>	Sustained Professional Development
<b>Event length:</b>	6 months
<b>Study days:</b>	2
<b>Online sessions:</b>	12
<b>Region:</b>	National
<b>Venue:</b>	Online classroom and study days in Coventry
<b>Start date:</b>	Wed 9th Feb 2022
<b>Fee:</b>	Free for state-funded schools; £300 otherwise
<b>Priority Area subsidy:</b>	2 x £250

## Registration

For more information, or to register for this event, please visit <https://amsp.org.uk/events/details/9058>