



Live Online Professional Development in Mathematics 2010

*A range of courses to enable teachers to teach A level Mathematics,
A level Further Mathematics and Diploma Mathematics with confidence.*

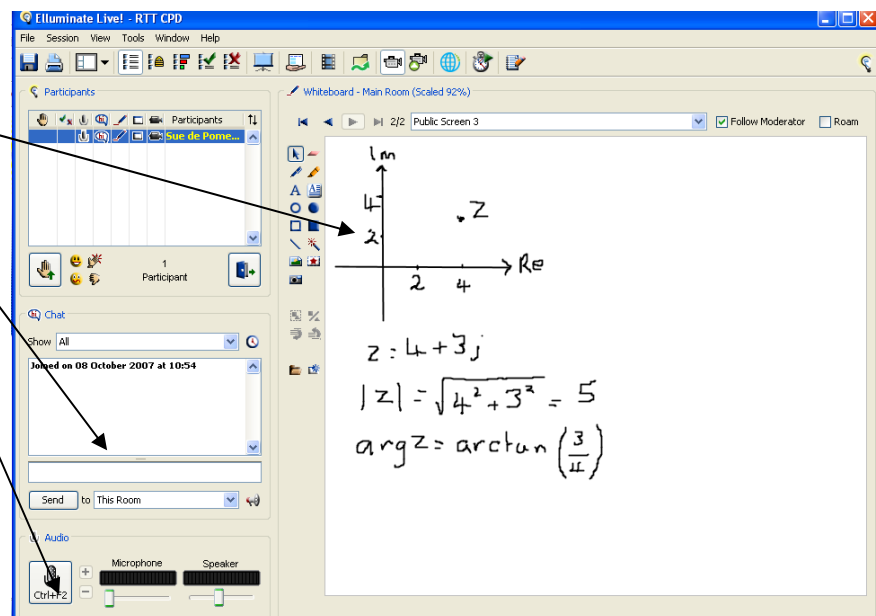
A modern approach to professional development; rather than attending a one or two day course, delegates meet weekly for live, interactive online sessions with a tutor and a small group of teachers.

These courses focus on developing subject knowledge and discussing approaches to teaching.

How does the live online tutoring work?

We use a web-based facility which is easy to use and allows a tutor and delegates to communicate live online using audio, handwriting on a shared virtual whiteboard and instant messaging via the internet.

- Shared whiteboard
- Instant messaging
- Audio conferencing
- Application sharing



This equipment is readily available to purchase on the high street or from online retailers for about £40

What you need to participate

- A broadband internet connection
- A recent version of Java (free to download)
- A headset for communication
- A graphics tablet and pen

Spring 2010 –Principal Learning for the Level 3 Engineering Diploma
Unit 8: Mathematical Techniques and Applications for Engineers
Cost £150

Deadline for applications: Friday 16th April 2010

Course Structure:

The course will consist of

- An introductory session; ensuring participants are familiar with the functionality of the online facility and the online resources.
- Ten 60 – 75 minute live online sessions led by a tutor

Dates:

DATE	TIME	TOPIC
Thu 22 nd April	1630 - 1730	Introduction to the online facility and the MEI web resources to support unit 8
Thu 6 th May	1630 - 1730	Algebra, manipulation: transposition of formulae, expansion and factorisation,
Thu 13 th May	1630 - 1730	Algebra, Solving equations: linear equations, simultaneous linear equations, quadratic equations
Thu 20 th May	1630 - 1730	Algebra: algebraic fractions, partial fractions, indices and logs
Thu 27 th May	1630 - 1730	Geometry and trigonometry: vectors, trigonometric functions, standard results, degrees and radians,
Thu 10 th June	1630 - 1730	Geometry and trigonometry: sine and cosine rules, area of triangle, length of arc and area of sector trigonometric identities.
Thu 17 th June	1630 - 1730	Calculus: differentiation
Thu 24 th June	1630 - 1800	Calculus: Integration
Thu 8 th July	1630 - 1800	Statistics: data handling
Thu 15 th July	1630 - 1800	Statistics: probability
Thu 22 nd July	1630 - 1800	Resource sharing session

All participants will receive

- Online resources access to resources for the module being studied
- A course handbook
- Email support from a course tutor

For Optional Certification

If participants wish to receive a certificate at the end of the course they will be required to create and submit a resource that can be used for teaching a topic from the module. There is also an opportunity at the end of the course to take part in an online session to share and present the resource with other course participants.

Further information and an application form:

http://www.furthermaths.org.uk/teacher_area/rpd.php

or contact sharontripconey@furthermaths.org.uk