

Application Form for Electronics & Communications Technology Training

Please return this form to :

Torben Steeg
3, Whitelow Rd
Chorlton
Manchester M21 9HQ

Fax: 0871 277 5869

[Please print]

Full Name

Institution

Institution's DfES Number

Address for Correspondence

.....

.....

Work tel

Home tel

Email address

Name of Headteacher or Principal

Signature of Headteacher or Principal, signifying agreement to the above teacher joining the ECT course, on the conditions outlined opposite, and to the provision of an extra £600 for the Design and Technology department for the purchase of equipment and materials to support the development of ECT related activities in both Key Stage 3 and Key Stage 4

.....

Date

Please tick box to indicate course applied for (one application per teacher)

Starting out in electronics

11th & 13th March 2006

19th & 20th May 2006

Taking electronics further

18th & 20th March 2006

16th & 17th June 2006

The Electronics in Schools Strategy



Full details of this Strategy are on its website: www.electronicinschools.org

The aim of the initiative is to increase both the numbers of teachers able to teach ECT at Key Stages 3 and 4 and the number of schools that are in a position to offer ECT related course in these phases of education.

Under the Initiative schools are offered four days of free training, generally for a single teacher. This training has to be led by an accredited trainer. In addition funding for up to £400 of ECT equipment is available provided that the school commits to spending a further minimum of £600 on ECT equipment to develop the teaching of ECT in the school. The courses can only be joined by teachers whose headteachers agree to support the development of ECT at KS3 and KS4 in the school.

Following completion of three accreditation tasks (two of which can be completed during the training) participants will gain accreditation from the IEE and the school will gain the right to call itself an ECT accredited school and use the ECT logo.

These are four day courses. Two days of each course are school days for which the school will be paid a fee of up to £130 (including VAT if applicable) per day towards supply cover and travel. Two are Saturdays for which the participant can claim the cover & travel fee personally (this will also be the case if courses fall into school holidays).

Please note that whilst this course is free of charge, a cancellation less than ten working days before the first two days of the course will result in a charge of £360 to the school. Failure to attend will result in a charge of £90 per day.

'Starting out in electronics' is aimed at teachers whose experience of teaching ECT is limited and who wish develop their expertise into this area.

'Taking electronics further' is aimed at teachers who have some experience of teaching ECT, perhaps at KS3, and wish to develop and update their knowledge.

Full course overviews are overleaf.

If you are interested in receiving information about future courses, please tick the box and then complete and return the rest of the form.

For more information on ECT courses please contact Torben Steeg on:

07801 541 690 or torben@steeg.co.uk or see www.steeg.co.uk

Other 4-day ECT courses being offered by Torben and John in 2006 include:

Cumbria SETPOINT. 'Starting out in electronics'

Venue: St Benedict's Engineering College, Whitehaven. Dates: 24th-25th March, 9th-10th June

Contact: Tony Gill tony@setpointcumbria.co.uk

Isle of Man. 'Taking electronics further'

Venue: Isle of Man (details tbc). Dates: 15th-16th March, 26th-27th June

Contact: John Thornley j.thornley@doe.sch.im

For details and application forms for all courses see www.steeg.co.uk/courses.htm

Course overviews

Starting out in electronics

A course for teachers who have no (or little) previous experience of teaching electronics / systems and control.

This four day course will enable you to develop an exciting, design-focussed, modern range of projects at KS3. It will also lay the foundations for you to move towards work at GCSE after further experience and professional development.

“Very well paced, excellent support”

In recent years electronics in schools has benefited greatly from the introduction of low cost programmable controllers that pupils can build into D&T projects.

The first two days of the course will develop the knowledge and skills to support school-based D&T projects incorporating these.

You will:

- ▶ find out how to develop control programs
- ▶ be introduced to electronic construction techniques
- ▶ construct a low cost take-home project suitable for KS3
- ▶ learn techniques to enable pupils to find faults in their own circuits

“The course provided me with a good foundation in ECT”

Days 3 and 4 will focus on the use of CAD and CAM in systems and control.

You will:

- ▶ explore the use of CAD for designing and checking circuits
- ▶ design and make a printed circuit 'from scratch'
- ▶ look at alternatives to programmable control
- ▶ discuss schemes of work enabling progression in systems and control at KS3

Further information will be provided when registration is confirmed.

Taking electronics further

A course for teachers who already have some experience of work with electronics / systems and control, perhaps at KS3.

The aim of this four day course is to enable you to offer a high quality, modern GCSE in Electronic Products / Systems and Control.

“Fantastic course, really enjoyed it and gained much”

The first two days of the course will focus on the use of PIC microcontrollers and the ways in which these support a wider range of pupil design-lead work:

- ▶ exploring various options for PIC programming
- ▶ associated PIC hardware and electronic concepts
- ▶ practical PIC based projects for use in school
- ▶ planning a PIC-based activity with equipment that can be taken to school and undertaken with a class before the second pair of days
- ▶ setting up networking to support course members
- ▶ introduction to ECT website and accreditation

“Best quality course I have ever attended”

Days three and four will look at other important ways in which electronics in schools can be enhanced:

- ▶ design based activities looking at systems, subsystems and their functionality
- ▶ comparing PIC and hardwired system approaches
- ▶ product analysis and designing ECT systems
- ▶ remote control and communication
- ▶ developing a scheme of work enabling progression in ECT at KS3 & 4

MANCHESTER
1824

The University
of Manchester

DATA
THE DESIGN AND TECHNOLOGY ASSOCIATION



The Electronics in Schools Strategy

Support for Electronics and Communications Technologies

(ECT) in schools

ECT
in schools

Two free 4-day ECT courses for Teachers of Design & Technology

£400 of ECT equipment provided to the school
as a part of the course

Teachers paid for attendance on Saturdays

For further information:
www.electronicsinschools.org

Tutors

John Martin, University of Salford
Torben Steeg, University of Manchester
(both ECT Accredited trainers)

Venue

University of Manchester

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Dates

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IEE Endorsed Provision