This course offers teachers the opportunity to improve their skills in providing high quality ‘first hand’ outdoor fieldwork and identification courses for GCSE and A level students. Throughout the course, participants will gain practical experience of planning and carrying out Geography fieldwork research and investigations, designed to support the learning taking place in school.

Who is this course for?
These courses are for anyone involved in teaching fieldwork to AS or A level students and wish to improve their fieldwork and GIS skills: teachers, education officers, field tutors.

Course aims
FSC delivers CPD to over 700 teachers a year and fieldwork to 1 in 2 A level Geography students.

This course offers teachers the opportunity to improve their GIS skills by providing high quality practical ICT-based training. Throughout the course, participants will gain practical experience of planning and implementing ArcGIS Online fieldwork activities designed to support the learning taking place within school.

The course is aimed at all secondary Geography teachers – whether currently teaching, training or due to return to the classroom and will include fieldwork activities, presentations and collaborative work. The focus of this practical and participatory course will be on using ArcGIS Online, starting with the basics and importance of GIS, finishing with ways in which the ESRI UK Collector App can be used for fieldwork.

The focus of this practical and outdoor course will be:

- Recognise the significance and importance of GIS in everyday life and its potential in transforming geography teaching and learning.
- Become familiar with the ways in which ArcGIS Online operates and its basic functions through the web interface.
- Understand how to collect, manipulate and use spatial data from a variety of places including published internet sources at a range of scales.
- Find out how to perform basic analysis within the ArcGIS Online platform.
- See the potential for the ArcGIS Office plug-in and how it can be used to visualise CSV data files.
- Be able to set-up and use the ArcGIS Collector App in order to undertake fieldwork and then create maps and analysis.
- Take away materials that can be used at school, which will help students develop skills and participate in GIS.
- Signpost supporting websites to get more help using the software.
The course will provide opportunities for teachers to:

- Use a range of basic and professional fieldwork equipment and research facilities.
- Improve knowledge of the different sampling and surveying techniques.
- Network with other professionals.
- Use innovative and inspiring ICT to enhance the learning experience.
- Develop understanding and abilities in statistical investigations.
- Share ways to inspire students about geography.
- Collect resources, ideas and materials to enrich the specifications in the classroom.

### Course Length

<table>
<thead>
<tr>
<th>Saturday</th>
<th>Sunday</th>
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<tbody>
<tr>
<td>Arrival for coffee. Start at 11:30am. Evening session.</td>
<td>Morning session and lunch. Depart 3pm.</td>
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### Course Timetable

**Saturday**

**Welcome and introduction to the course and GIS focusing particularly on:**

- The role of GIS in the world around us.
- GIS in the new Geography specifications.
- ArcGIS introduction and the power of the online platform.

**After this introduction, participants will progress to:**

- Using secondary data sets.
- Gathering and analysing census data and its use in Geography.
- Creating Excel spreadsheets for use and presentation in ArcGIS.
- The use of GIS for data presentation.

**Sunday**

**Using GIS and mobile devices in fieldwork**

- Introduction of Collector App and its uses.

**Participants will design their own geographical investigation involving the use of Collector App. On this day participants will:**

- Create a editable feature service.
- Road test data collection using mobile devices at a field site location.
- Discuss logistics of group work involving mobile devices.
- Upload data.
- Carry out data analysis.
- Discuss management of data in ArcGIS online.

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Who is running the course?

Experienced centre staff Joe Newberry and Janine Maddison.
Course Fees
The course would be £250 but is subsidised by the FSC so you only have to pay £50 for sole occupancy accommodation or £30 for non-residential.

Included within the fee:
- Up to 13 hours of tuition.
- Computers / laptops / tablets and all accompanying ICT requirements can be provided.
- Full board accommodation including a cooked breakfast, picnic lunch, homemade cakes and an evening meal. Vegetarian and other option available.
- Use of FSC resources including library, workrooms, equipment and the Centre grounds.
- Rigorous and proven health and safety procedures including 24 hour emergency cover.

What to bring
- Laptop if you have one.
- Smartphone if you have one.
- Outdoor clothes, warm and waterproof.
- Resources you would like to share with others.

Centre offering the course
An impressive Georgian mansion with over 100 acres of mixed woodland, Orielton is located just three miles from Pembroke on the Castlemartin Peninsular and approximately 1.5 miles from the Pembrokeshire National Park boundary, Britain's only genuine coastal National Park. The proximity to the coast provides a vast array of habitats, landscapes and settlements for study.
Half of all A level Geography students visit our centres each year