

The Drilling Course - Developing Groundwater

Learn about groundwater, water well siting, well design and drilling supervision in a humanitarian or development context.

Are you a water engineer who needs to know more about siting and construction of water wells?

Is hydrogeology part of your job but you would like more of a practical understanding of drilling and pump test supervision?

This intensive and highly practical 3-day course aims to develop your knowledge of groundwater, water well siting, drilling supervision, well design and pumping tests.

Run in collaboration between Groundwater Relief and University of Birmingham's MSc hydrogeology department, with additional support from WJ Drilling, you will be provided with hands-on experience in drilling supervision, led by renowned specialists.



UNIVERSITY OF
BIRMINGHAM

GROUND
WATER
RELIEF



Course Dates: 6th to 8th November 2024
Course Length: 3 days
Course Location: University of Birmingham
(Edgbaston Campus)



Course Structure

The course will be run over 3 days within University of Birmingham's Edgbaston Campus. As part of the course a borehole will be drilled and pump tested on the campus.

DAY 1: Site Assessment and Borehole Design

Introduction to hydrogeology, borehole siting, borehole design, site assessment & setting up a drilling rig.

DAY 2: Supervision and construction of a water well

Drilling supervision of a rotary rig, materials, methods, sampling and record keeping (logging drill cuttings, well consumables, well development), well installation and borehole development.

DAY 3: Borehole completion and Borehole Testing

Borehole completion and development, pumping tests, water quality sampling.



As part of the course a borehole will be drilled and pump tested on the campus.



Geraint Burrows is a hydrogeologist and WASH engineer with 15 years' experience managing small to large scale groundwater supply projects all over Africa and Asia. Previously he worked for organisations such as the International Rescue Committee, Médecins Sans Frontières, Oxfam and UK Environment Agency. Since 2016 Geraint has directed Groundwater Relief, a charity that links groundwater expertise from within the private, public and academic sectors to the aid and development sectors.

Paul Thomson is a qualified Hydrogeologist and Chartered Geologist with twenty five years' commercial experience in water resource management, hydrogeology, project management and business leadership. He is a founding partner at Aquitech LLP. His career has led him to work in many countries worldwide, with a particular focus on the needs of high quality water sources for beverages and water drinks. He is a support lecturer at University of Birmingham where he teaches borehole design, construction and maintenance for the MSc Hydrogeology course.



Prof Richard Carter has 45 years' experience in groundwater and surface water development, rural drinking water services as well as sanitation and hygiene, and farmer-managed irrigation. His efforts have mainly focused on sub-Saharan Africa, and he has worked in higher education, research and consultancy for a range of academic, NGO and private sector employers. He is full-time Director of his own consultancy firm. He won the Applied Hydrogeology award of the International Association of Hydrogeologists in 2016. Rocks, holes in the ground, and water have been among his lifelong fascinations.



Prof John Tellam is Professor of Hydrogeology at University of Birmingham. He has over 40 years of research and teaching experience, and for many years has run the University's MSc course in Hydrogeology (groundwater science and engineering). His research interests have included the relationships between regional groundwater chemistry and groundwater flow, wetland systems, urban groundwater, and inorganic, surface-interacting, solute and nanoparticle movement in sandstone sequences.

Simiao Sun is an Associate Professor of Hydrogeology at University of Birmingham with both academic and industry experiences. Her research interests lie primarily in utilising computational techniques, including numerical modelling, programming, and GIS, alongside laboratory techniques, to investigate interesting and varied groundwater problems, such as groundwater flow, resources, and contaminant transport issues.



Peter Dumble is an Independent Hydrogeologist specialising in groundwater monitoring. His practical experience of 40+ years is informed by parallel careers in consultancy and in building a business supplying groundwater monitoring equipment. He now uses his skills to support development work, encourage research and in the delivery of practical training courses covering water well drilling, groundwater quality sampling and water level monitoring. His ideal day-out is on-site supervising a drilling rig.

How to Book

Please email your interest to
admin@groundwater-relief.org

Course Fees

Standard Organisation	£1,375
Standard Individual	£1,250
Not for profit worker / GWR member	£1,125
Early Bird (book by 30 th September 2024)	10% discount

Please read our refund policy and full terms and conditions

Refund Policy

For bookings cancelled two or more weeks before the course begins, administrative charges will apply. Applicants will be entitled to a refund of 90% of the course fees paid.

For bookings cancelled one to ten working days* before the course begins, 25% of the course fee will be refunded (*during normal UK working days, Monday-Friday and working hours 09:00 am to 17:00 pm).

For non-attendance or bookings cancelled less than 24 hours before the course begins, or after the course has begun, no refund will be provided.

Refunds may take up to 30 days.



Please see our training videos:

Drilling Supervision training video
Well Completion training video

https://youtu.be/crylIHQ5L_k?feature=shared
<https://youtu.be/f3YPCs65zUQ?feature=shared>

Booking

- To book a place on this course please email admin@groundwater-relief.org requesting a place be **reserved** for you. On receipt a booking form will be sent for completion by you. Please return as soon as possible along with a **holding deposit** of 20%.
- A place on the course will not be **confirmed** until full payment has been received.
- All official correspondence concerning the course must be made in writing and sent by email to ensure an official record of the application status.

Refunds

- Groundwater Relief is only able to cover our local bank charges and not the recipient's bank charges when refunds are made, and is not liable for any exchange rate losses in either the refund or payment of the course fee.
- Refunds may take up to 30 days.

Payments

- Full course fees must be received by 17:00 pm on Monday 14th October 2024. A place will not be **confirmed** until full payment has been received.
- If by 17:00 pm on Monday 14th October 2024 full payment has not been received and the course is oversubscribed, Groundwater Relief reserves the right to cancel any **reserved** places. Should your **reserved** place be cancelled you will be informed of the cancellation, and you will no longer be liable for the course fee. Your **holding deposit** will be refunded.

Discounts

- The 10% early bird discount finishes at 17:00 pm on Monday 30th September 2024. All bookings must be paid in full before this date, otherwise bookings will be charged at the standard rate.
- Workers of an NGO must provide evidence that they work for an NGO in the form of a letter written on letter headed paper signed by their manager.
- Member discounts only apply to members of Groundwater Relief who joined before 1st September 2024.

Individuals requiring a visa

- Groundwater Relief cannot offer advice on specific cases or visa requirements.
- Groundwater Relief cannot send letters to embassies, high commissions or consulates.
- Applicants should ensure that they are able to meet the conditions for entry into the UK before applying for a place on the course. Information on entry to the UK can be found at <https://www.gov.uk/browse/visas-immigration/tourist-short-stay-visas>
- Only upon receipt of a completed booking form and full payment of the course fees will a letter of confirmation be provided. This letter is a standard format and will be emailed to the applicant only.
- Cancellations due to visa refusals will be treated as per the refund policy.

Cancellations

- Groundwater Relief reserves the right to cancel the course if there are not enough participants attending. In such an event, Groundwater Relief will endeavour to inform all participants two weeks before the course is due to take place, by Monday 21st October 2024, although this is not always possible.
- If Groundwater Relief cancels the course at any stage then all fees paid will be reimbursed in full, but we are unable to reimburse any other costs that may have been incurred including flights, accommodation etc.
- Groundwater Relief reserves the right to cancel the course with 24 hours notice due to any unforeseen circumstances that may occur.

Minimum Age

- Participants of this course must be 18 years or older. A copy of your passport will be required for identification purposes, or other age-related documentation.

Photographs and Videos

- During the 3 day course photographs and/or videos will be taken for communication and/or marketing purposes in accordance with Groundwater Relief's legitimate interests. Consent to capture a participant's voice and image in photographs/footage/audio by Groundwater will be sought at the time of booking.