Finchley College construction, Engineering, Surveying training courses

Our Engineering Surveying training courses are ideal for beginners, those seeking a career change, graduates, assistants, and junior engineers looking to advance their careers in construction engineering and surveying. We understand that embarking on a new job can be challenging, but we are here to support you every step of the way. With over 30 years of experience and training with more than 1,200 learners, we have developed expertise in training beginners effectively. You could earn between £150 and £250 per day over the course of a year.
Please choose one or more of the following courses.

Please see below our range of engineering surveying courses. All learners must have a good standard of English.

ProQual Level 3 Diploma in Engineering Surveying for beginners (Beginner to advanced level course)

This course prepares beginners with no prior construction background to start work as construction engineers or topographic surveyors.

Qualification:
ProQual Level 3 Diploma in Engineering Surveying

Entry requirements: No prior qualification is required, making this opportunity open to anyone wishing to pursue a career in construction engineering.

Duration: This course runs for two consecutive weeks (Mon-Sat) every other month throughout the year. Alternatively, learners can attend the first three weekends for two months. Start on the first Saturday of any month.

Times: 08.30 am to 4.00 pm
Fee: £2495 plus VAT (£2995)
Plus £95 certificate fees

ProQual Level 3 Diploma in Engineering Surveying
For existing engineers and surveyors

This course is designed for existing engineers and surveyors currently working without a qualification or a valid CSCS card, enabling them to become qualified and apply for a Gold CSCS Engineer Surveyor Card.

Qualification:
ProQual Level 3 Diploma in Engineering Surveying

Entry requirements:
Learners must be working at a construction site or as a land or topographic surveyor and be able to use Total Stations

Duration:
2 Weekend or weekday sessions, one to two days of site assessments at the learner's workplace, plus blended home study

Times: 08.30 to 4.00 pm

Fees: £1329 plus VAT (£1595)

CITB assured courses
Total Station for construction
Levelling

This course is ideal for UK graduates and junior engineers who require training in the use of Total Stations, GNSS, and levelling to work competently and confidently using a variety of surveying instruments

Qualification: CITB assured training certificates

Entry requirements:
Good standards of the English language

What you will be learning

- Total Stations
- Setting out and surveying methods
- Establishing and checking site controls
- Levelling by Total Stations and levelling instruments
- Using profile boards for levelling
- Using GNSS for surveying and setting out

Duration: Six days
Six consecutive days or three weekends in one month
Times: 08.30 am to 4.00 pm
Fees: £1125 plus VAT (£1350)

Short courses
Offered on weekdays or the last weekend of any month

Course title	Duration	Fees incl VAT
AutoCAD	2 days	£395
Drone for construction introduction	1 days	£195
Introduction to Building Information Modelling	1 days	£195
First Aid at Work	2 days	£195
Emergency First Aid	1 day	£95
Construction drawings	1 day	£95
Understanding Construction Processes	1 day	£95
SSSTS-safety course	2 days	£295
SMSTS-safety course	5 days	£595

Beginner to advanced level course: Level 3 Diploma in Engineering Surveying for beginners, Fee: £2995 inc. VAT, plus £95 certificate fees

Learners new to engineering surveying who wish to achieve a qualification must enroll in the beginner-to-advanced level. This course is offered on the first three weekends of any month for two months, or as a block of two weeks (Mon-Sat), with a repeat of the second week two months later if needed.

Learners are advised to register at least two to four weeks before the start date to study the course material at home, including video lessons, simulators, and PDF documents, to prepare for the theory lessons.

What you will be learning:

Total Station training, programs, settings, how to set up, and establish position

Setting out methods, learn quick and easy ways of setting out piles, walls, columns, foundations, groundworks, external works, and how to work in RC and steel frame structures

Levelling, using automatic, laser, and digital levels

Two-Peg Test for Instrument Calibration

GNSS awareness, learn to use GNSS for surveying and setting out, and establishing site controls

Please see the timetable below for a complete list of all learning topics, including Total Stations, GNSS, and levelling equipment.

We provide free post-training telephone and email support to ensure you remain fluent and competent in the use of surveying equipment.

Level 3 Diploma in Engineering Surveying for existing engineers and surveyors, Fee: £1595 inc. VAT.

Leaners will be able to apply for a Gold CSCS Engineer Surveyor card.

We offer a bespoke course tailored to the availability and commitments of existing engineers and surveyors. We can visit learners at their workplace for one to two days of practical assessments. They can attend college for two days to complete the remaining practical and theory tasks. Learners must submit answers to the knowledge questions of the award. They should ideally register at least two weeks in advance to study the course material before attending college.

What you will be learning: In this course, we will cover the fundamentals of surveying, including:

- Surveying mathematics, Principles of Surveying, Principles of levelling, using automatic, laser, and digital levels
- Traversing to establish and/or check site controls, GNSS for surveying and setting out
- Please note that this course does not include setting out or Total Station training

CITB Total Station for construction and levelling course: Fee: (£1350 inc VAT)	
This course prepares graduates, assistants, and junior engineers to use Total Stations and levelling equipment with fluency and competence. It will prepare you to work as a junior site engineer, a setting out engineer, or a land surveyor. The course involves intensive training using robotic Total Stations. You will learn to read construction drawings, upload setting-out data to Total stations, and mark out foundations, walls, columns, lift shafts, drainage, and other features. Generally, in groundworks, RC frames, steel frames, and external work projects.	

Beginner to advanced level course topics: ALL topics listed below (1 to 5) over 12 days

Existing engineer surveyor course topics: Principles of surveying, levelling, GNSS, as well as traversing (1 to 4) over up to 4 days

CITB Total Station for construction and levelling course topics: 2, 3, and 5 over 6 days

1 **Principles of surveying**	**2** **Levelling**	**3** **Total Stations**	**4** **GNSS**	**5** **Setting out methods**
• **Pythagoras theorem** • **How Total Stations use basic math to work.** • **Calculating distances, bearings, angles, and heights** • **Calculating areas, volumes, and gradients** • **Working out coordinates from drawings** • **Understanding national and local grids**	• **Principles of levelling** • **Levelling by automatic, laser, and digital levels** • **Two peg test calibrating levelling instruments** • **Levelling traverse** • **Establishing site datums and TBM's** • **Levelling by Total Stations**	• **How Total Stations work** • **Distance and angle measurement** • **Rounds of angles** • **Traversing** • **Establishing site controls** • **Control Networks** • **Resection program** • **Creating local grid systems**	• **How GNSS works** • **Advancements in technology** • **Static and RTK modes** • **Surveying and setting out by GNSS** • **Establishing site controls** • **Topographic surveys**	• **Key instrument programs** • **Stakeout, Surveying, principles of setting out.** • **Setting out Piles, walls, columns, foundations** • **Measuring angles, distances, and heights**

To book this course, please pay by BACS to the college account, using your name as a reference, or pay online.

Finchley College (this is a business account)

Sort code: 09-01-27, Account no. 44018113, alternatively, pay online, www.finchleycollege.com

The CITB 6-day course is taught in the first six days.

ProQual Level 3 Diploma in Engineering Surveying for beginners- Duration 12 days

		08.30 am-12.00 pm	12.30-4.00 pm
Day 1	Saturday	**Introduction to Total Stations** • set up the total station over a point • (horizontal and vertical collimation error, trunnion axis, prism constant, optical/ laser plummet, diaphragm orientation • Sources of error when using a total station • Techniques for improving and checking your accuracy and precision • view, edit, add, and delete data, import and export data	**Levelling and plumbing by Total Station** • measure and set out reduced levels with the total station • Range of methods for plumbing columns and walls
Day 2	Sunday	**Establishing a primary control network** • install a network of primary control points from scratch (traverse)	**tallation of a secondary control network** • install accurate secondary control points (retro targets) • create a local coordinate system
Day 3	Saturday	**Resection, Surveying, and Distance Measurement** • set the position and orientation of the total station using the resection • set the position and orientation by setting up over a known point and referencing another known point • take a topographical survey and record the results systematically • measure the horizontal distance and level differences between points	**Setting out methods** • stake out points of known co-ordinates using the stake out function • stake out points in relation to a baseline using the reference line function • import and export data • discuss the relationship between Total Station and GNSS equipment • Scenarios when you would choose mechanical and robotic total stations
Day 4	Sunday	**Introduction to levelling** • Record work correctly and to the industry standard • Incorporate robust checks to all levelling • List the sources of error in levelling • Carry out a level survey (existing features or as-built) • Set elements to a fixed level, i.e. top of concrete levels • Measure the reduced level of ceilings and soffits	**Practical levelling exercises** • Two peg tests • Level survey • Automatic, laser, and digital levels Establishing site datum and TBMs
Day 5	Saturday	**Levelling continued** • Transfer Temporary Benchmarks (TBM) to create new Temporary Benchmarks (TBM) • Check that the level is in correct calibration – two peg test • Set up profile boards for level excavation • Set up profile boards for sloping excavation • Set up batter rails for cut and fill • Apply the principles of various levelling equipment	**Taping** • Calculate gradients for the purpose of setting out • List the sources of error in taping • Set out right angles and rectangles using a tape measure • Set out on sloping ground • Incorporate checks when setting out using a tape measure
Day 6	Sunday	**GNSS** • Explain basic principles of GNSS technology • List situations where GNSS is appropriate and where it is not • Carry out site calibration to create a local coordinate system • List potential sources of error in GNSS • List factors affecting accuracy • Check and monitor levels of accuracy achieved • Select correct scale factor for the task • Enter data into controller manually • Connect controller with GNSS rover • Navigate around menus and programs • Navigate stored information	**GNSS continued** • Enter correct settings • Select correct prism constant • Take a topographical survey and record results systematically • Set out points of known co-ordinates using the on-board functionality • Set out points in relation to baseline using on-board functionality • Set out points at given chainages and offsets along a radius • Transfer large amounts of data from controller to computer and vice versa • Extract line data • Measure irregular areas and volumes • Import and work with DXF and DTMs, view, edit, add and delete data • Create and export DXFs and DTMs, import and export data

Day 7	Saturday	**Introduction to Surveying** • Minimum health and safety requirements for engineers and surveyors • Dynamic risk assessments • Surveying mathematics • Coordinate systems, national and local • Calculation of a whole circle bearing and distances between two points • Area calculations • Slope and gradients • Use of geometry in relation to angular and grid co-ordinates, polar and rectangular	**AutoCAD** • AutoCAD for beginners
Day 8	Sunday	**Building Information Modelling** • Basic concepts of Building Information Modelling (BIM) • BIM maturity levels • Advantages of BIM • BIM enabling tools • Federated Model • CDE, EIR, Cobie, PAS 1192-2, Laser scanners and detecting underground utilities • Understanding how laser scanners work • Advantages and uses of laser scanners • Purpose of detecting underground utilities • Total Station accuracies, Setting out accuracies • Choice of fit-for-purpose equipment for setting out	**Total Staton programs** • Setting up a Total Station over a nail • Station setup methods: Resection, local resection, setting orientation using angles • Setting out exercises
Day 9	Saturday	**Total Station and setting out exercises** • Station setup program • Resection and Local resection exercises • Extracting coordinates from drawings • Uploading point coordinates to an Excel spreadsheet • Uploading points to Total Station • Setting out exercises	**Setting out methods and exercises** • Stake out program • Reference line program • Reference arc program • Setting out exercises
Day 10	Sunday	**Setting out exercises** • Setting out from drawings • Setting out points, piles, slab edges, manholes, gullies • Setting out lines, walls, columns, lift shafts	**Setting out exercises** • Setting out roads, buildings, piles, and pile caps • **Submission of written assignments-deadline**
Day 11	Saturday	**Profile systems** • Establishing profiles for drainage, roadworks, and embankments • Setting out exercises	**AutoCAD** • AutoCAD intermediate
Day 12	Sunday	**Final assessments** • Professional discussions	**Graduation ceremony** • **Invite friends and family** 

For more information or to enroll, please get in touch with us:
Email: finchleycollege@yahoo.com, **Phone**: 07974 221155, 020 8143 8970, **Website**: www.finchleycollege.com

Some of our recent Trustpilot reviews

I recently completed the Engineering Surveying course at Finchley College, and it was a fantastic experience. The course was well-organized, very practical, and provided plenty of useful information.

I want to give special thanks to Reza, our teacher. He was brilliant, knowledgeable, and always professional. He explained everything clearly, made even the complex parts easy to understand and gave us real-world examples to help us learn. He was also very approachable and happy to answer any questions we had.

The college provided excellent equipment and hands-on training, which was very important for this type of course. The staff were also friendly and helpful whenever we needed support.

I would highly recommend Finchley College to anyone looking to study engineering surveying. It's a great place to learn and improve your skills.

Date of experience: 24 January 2025

What a pleasant experience.

Every part of this course is constructive and useful. Reza is highly knowledgeable, patient and most helpful. I would recommend Finchley College to anyone.

Date of experience: 04 November 2024

It's a really great college

It's a really great college. I'm doing there my ProQual NVQ Level 3 in Engineering Surveying.
The teachers are very professional and try their best to make you understand the subject. If student struggle in some areas teacher is always trying to put an extra effort to help him to learn or understand it better.
Apart from theory there are lots of practical exercises. You get full training and understanding of working with Leica Total station, dumpy, laser and digital levels, GNSS.
Also it is easy to get to - just a few minutes walk from Finchley Central Station.

Date of experience: 08 October 2022

Pleased with the experience

I have recently been certified my ProQual Level 3 Diploma in Engineering Surveying at Finchley college. I am truly pleased with the experience and the help that has been provided by the team.

They are one of very few that qualify you for this certificate. If you're serious about your engineering career, Finchley college is where you start your journey.

Date of experience: 05 August 2024

Just a really great course

I'm pleased with my experience at Finchley College. The tutors are excellent—knowledgeable, and genuinely passionate about surveying. I was fortunate to have 1-2-

training which meant I got the best possible training. The course was a mix of theory and practical, which was super helpful.

Reza has a wealth of knowledge that has literally taken a lifetime to accumulate, and I am really grateful for the help and transfer of some of that knowledge.

Date of experience: 06 April 2024

ProQual Level 3 Diploma in Engineering Surveying

I would like to share my experience and recommendations. Recently, I archived my engineering course with Finchley College in 2024 and completed my NVQ L3 Diploma in Surveying and Engineering.
Although I had been in engineering for the last ten years, I needed a formal qualification. I knew most of the things, but I still learned new techniques with the help of Reza and the college team. I am happy with the instructor and the team's experience, knowledge, and friendliness. I highly recommend attending Finchley College for your training. I have taken other courses in the past, but Finchley College training is the best and will give you deep learning in every subject of engineering and surveying. After completing the course, you should be more confident to work on your own, and at the same time, completing the course, you will able to apply for a professional SCCS cold card, which no other training provider will give you this benefit.
Good luck to you and the training you may choose to take.

Best Wishes.

Best College for set-out Engineers

I came across Finchley College on their YouTube channel, where they've put free lecture videos. I decided to join the college and was met with friendly and knowledgeable staff. The program was flexible and adjusted for my learning needs. I was provided with online videos and ebooks, enough to cover all the aspects in order to become a set-out engineer. Arguably, I was offered more study material than the UNI I paid for way more. Having a professor so passionate about their work gave me the confidence to ask even the most trivial of questions to become a better engineer. All the students are welcome to drop by any time after graduation to ask questions that they may face in the field over their career as engineers, I can't remember any other school I've attended that welcomes past students like that. To me this is a big plus and thumbs up to Finchley College.

Date of experience: 24 January 2024

Don't miss out on junior engineer or surveyor job opportunities. Please check the CV library for setting out site engineer jobs with pay rates of £200 to £350 p/d within a year or two of completing your course.

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www.finchleycollege.com