




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 effectively training beginners. You could earn between £150 and £250 per day within a year.


Please choose one or more of the following courses.

Learners who are not existing engineers or surveyors and wish to achieve the Level 3 Diploma in Engineering surveying must register for the beginner to advanced course. Existing engineers and surveyors undertake a shorter course as they are already familiar with using Total Stations for surveying and setting out.

Please note that there is an added charge of £95 for unit or qualification certification, payable upon certificate claim. This is in addition to course fees covering qualification costs.

	<p>Learning to use two-man and Robotic Total Stations is the main feature of the beginner to advanced and enhanced courses, where you will have 3 hours of training on how to use these instruments, their applications on site, and what is expected of you.</p> <p>You will learn key programs used by experienced engineers.</p>
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	<p>Levelling is generally underestimated, but it is crucial to get it right as errors in levelling can be catastrophic.</p> <p>A sound engineer will be competent in using all types of instruments.</p>
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	<p>GNSS is widely used for surveying by land surveyors and topographic surveyors; it is also occasionally used by site engineers, as their primary instrument is a Total Station</p> <p>In this course, you will learn how and when to use GNSS.</p>
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Overview of our courses

<ul style="list-style-type: none"> Fundamentals of surveying <p>This course is appropriate for Graduates, beginners, and existing engineers</p> <p>Fee: £995 plus VAT (£1195) Duration: 10 morning sessions Two consecutive weeks or 10 weekend sessions over two months 08.30 am to 11.30 pm</p> <ul style="list-style-type: none"> Principles of surveying Surveying mathematics Principles of levelling, two peg tests, using automatic, laser, and digital levels Introduction to manual Total Stations Traversing to establish new or check existing site controls GNSS for surveying and setting out 	<ul style="list-style-type: none"> Setting out and Site Surveying <p>This course is appropriate for. Graduates and junior engineers</p> <p>Fee: £1195 plus VAT (£1435) Duration: 10 afternoon sessions Two consecutive weeks or 10 weekend sessions over two months (2 Saturdays and 3 Sundays per month) 12.00-3.00 pm</p> <ul style="list-style-type: none"> Robotic Total Stations Total station settings and programs Surveying and setting out exercises GNSS for surveying, setting out, and establishing site controls GNSS for surveying and setting out <p>This course is ideal for graduates to learn how to use Total Stations and GNSS for surveying and setting out, thereby improving their chances of employment as a junior engineer. Existing junior engineers can utilize this course to upskill and transition into full engineering positions.</p>	<ul style="list-style-type: none"> Beginner to advanced course <p>Fee: £2495 plus VAT (£2995) Duration: 10 all-day sessions over two weeks or 10 weekend sessions. This is a combined Fundamentals of surveying and setting out course, including a Diploma in Engineering Surveying qualification, subject to satisfactory completion of assessments.</p> <hr/> <ul style="list-style-type: none"> Beginner to enhanced course <p>Fee: £3329 plus VAT (£3995)</p> <p>Beginner to advanced level, plus extended training time and 2.5 hours of extended training each day, as well as First Aid at Work and Level 3 Award in Mentoring, detailed AutoCAD training, construction processes and drawings, and learning to fly drones.</p> <p>Includes a free repeat of the entire course</p> <hr/> <ul style="list-style-type: none"> Level 3 Diploma in Engineering Surveying for existing engineers and surveyors <p>Fee: £1195 plus VAT (£1434) A bespoke course for existing engineers and surveyors to achieve the Level 3 Diploma in Engineering Surveying and apply for a gold CSCS engineer surveyor card. We will visit learners at their workplace to expedite the completion process.</p>
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• **Fundamentals of surveying course.**

This course is suitable for Both Graduates and beginners, covering the first three units of the Diploma in Engineering Surveying course.

Fee: £995 plus VAT (£1195), Duration: 10 morning sessions over two consecutive weeks or 10 weekend sessions over two months (the first 2 Saturdays and 3 Sundays of each month)

08.30 am to 11.30 pm

- **Principles of surveying**
- **Surveying mathematics**
- **Principles of levelling, two peg tests, using automatic, laser, and digital levels**
- **Introduction to manual Total Stations**
- **Traversing to establish new or check existing site controls**
- **AutoCAD for beginners**

After completing this course, learners can achieve 3 units of the Diploma in Engineering Surveying qualification.

To achieve full qualification, learners must enrol in both the fundamentals of surveying and setting out courses

Fundamentals of surveying course		08-30 am to 11.30 am
Day 1	Induction & surveying mathematics	
Day 2	Surveying mathematics	
Day 3	Principles of levelling, two peg tests, and using automatic levels	
Day 4	Principles of levelling, using digital and laser levels for surveying	
Day 5	AutoCAD for beginners	
Day 6	Introduction to Total Stations	
Day 7	Measuring angles, distances, heights, areas, and volumes	
Day 8	Traversing, establishing new site controls	
Day 9	Traversing continued	
Day 10	AutoCAD for beginners	

- **Setting out and Site Surveying course.**

This course is suitable for Graduates and junior engineers, covering the last two units of the Diploma in Engineering Surveying course.

Fee: £1195 plus VAT (£1435), Duration: 10 afternoon sessions over two consecutive weeks or 10 weekend sessions over two months (the first 2 Saturdays and 3 Sundays of each month)

12.00-3.00 pm

- **Robotic Total Stations**
- **Total station settings and programs**
- **Surveying and setting out exercises**
- **GNSS for surveying, setting out, and establishing site controls**
- **GNSS for surveying and setting out**
- **AutoCAD for engineers**

After completing this course, for an added fee of £95, learners can receive unit certificates in using GNSS and setting out.

To achieve full qualification, learners must enrol in both the fundamentals of surveying and setting out courses.

Setting out and site surveying course		12.00-3.00 pm
Day 1	Induction & Introduction to Total Stations-programs, resection, stake out	
Day 2	Setting out exercises-Setting out piles, manholes, gullies, external works, data upload	
Day 3	Setting out walls, columns, slab edges, and lift shafts, and atmospheric corrections	
Day 4	Setting out and surveying by GNSS, survey data download	
Day 5	AutoCAD for engineers	
Day 6	Setting out groundworks, foundations, and RC frames	
Day 7	Setting out steel frame structures, holding down bolts	
Day 8	Setting out openings in floors and walls, stairs, and ramps, GNSS revision	
Day 9	Surveying, as built surveys, topographic surveys by GNSS and Total stations	
Day 10	AutoCAD for engineers	

Level 3 Diploma in Engineering Surveying for existing engineers and surveyors to apply for a gold CSCS engineer surveyor card.

Fee: £1195 plus VAT (£1435), plus a final fee of £95 for certification

Duration: One day of site visit, followed by 1 to 4 days of training at the college. Suitable dates will be agreed with each learner to suit their availability and work commitments. Please note that this course does not include setting out and surveying training, as engineers and surveyors must be familiar with using Total Stations for surveying and setting out.

Learning topics

- Principles of surveying, surveying mathematics
- Principles of levelling, two peg tests, using automatic, laser, and digital levels
- Traversing to establish new or check existing site controls
- GNSS for surveying and setting out

ProQual Level 3 Diploma in Engineering Surveying for engineers	
<u>Dates and times will be agreed with each learner.</u>	
Day 1	Site visit, induction, and practical assessment of using Total Stations for setting out
	College-based training
Day 2	Mathematics of surveying, introduction to levelling
Day 3	Level surveys by automatic, laser, and digital levels, two peg tests
Day 4	Traversing and establishing site controls
Day 5	GNSS- surveying and setting out

Site visit will consist of assessment using Total Stations for surveying, setting out, resection, upload, and download of data, and discussion about control points and general site activities

Beginners to advanced course, Fee: 2495 plus VAT (£2995)

This course combines the fundamentals of surveying and setting out, leading to a Diploma in Engineering Surveying for individuals not currently working as engineers or surveyors. The course is open to anyone; we will provide comprehensive training to ensure all learners achieve the standard of being a junior engineer.

Beginners to advanced engineering surveying course		
<u>Fundamentals of surveying and setting out courses combined</u> <u>Leading to the award of a Diploma in Engineering Surveying</u>		
Fundamentals of surveying 08.30-11.30 pm		Setting out and site surveying course 12.00-3.00 pm
Day 1	Induction & surveying mathematics	Induction & Introduction to Total Stations- programs, resection, stake out
Day 2	Surveying mathematics	Setting out exercises-Setting out piles, manholes, gullies, external works, data upload
Day 3	Principles of levelling, two peg tests, and using automatic levels	Setting out walls, columns, slab edges, and lift shafts, and atmospheric corrections
Day 4	Principles of levelling, using digital and laser levels for surveying	Setting out and surveying by GNSS, survey data download
Day 5	AutoCAD for beginners	AutoCAD for engineers
Day 6	Introduction to Total Stations	Setting out groundworks, foundations, and RC frames
Day 7	Measuring angles, distances, heights, areas, and volumes	Setting out steel frame structures, holding down bolts
Day 8	Traversing, establishing new site controls	Setting out openings in floors and walls, stairs, and ramps, GNSS revision
Day 9	Traversing continued	Surveying, as built surveys, topographic surveys by GNSS and Total stations
Day 10	AutoCAD for beginners	AutoCAD for engineers

Beginners to an enhanced course

This course offers extended training and covers topics outside the engineering surveying syllabus. It is designed for absolute beginners, particularly those transitioning into construction engineering, and offers long-term post-training support, including the option to repeat the entire course if needed.

The course duration is 12 days, spread over two consecutive weeks or weekends, with the option to extend training for those who require additional time.

It is recommended that learners join this course early and use the online training before attending college to help them complete the course over 12 days.

Extra topics include

- Free repeat of AutoCAD lessons for up to six months
- First Aid at Work qualification
- Level 3 award in mentoring and coaching
- REVIT software for BIM
- Learning to fly drones for work progress monitoring
- Learning to work as a site engineer
- Construction drawings and processes
- Quality assurance, non-conformance reports, and as-built surveys
- Construction drawings, architect plans, sections, and elevations
- Reinforcement drawings, bending schedules, and ordering rebars
- RC frame and steel frame structures and groundworks
- Be the first to know about any job vacancies we receive

Beginners to an enhanced engineering surveying course Fundamentals of surveying and setting out courses combined, plus extended topics Leading to the award of a Diploma in Engineering Surveying, First Aid at Work, and level 3 mentoring			Fee: £ 3329 plus VAT (£3995)
	Fundamentals of surveying 08.30-11.30 pm	Setting out and site surveying course 12.00-3.00 pm	Enhanced course 3.00 to 5.30 pm
Day 1	Induction & surveying mathematics	Induction & Introduction to Total Stations-programs, resection, stake out	Level 3 Award in Mentoring
Day 2	Surveying mathematics	Setting out exercises-Setting out piles, manholes, gullies, external works, data upload	Construction processes and drawings, groundworks, RC, and steel frames Architects, engineers, plans, sections, and elevations
Day 3	Principles of levelling, two peg tests, and using automatic levels	Setting out walls, columns, slab edges, and lift shafts, and atmospheric corrections	Detailed study of Building Information Modelling The role of the BIM coordinator and manager
Day 4	Principles of levelling, using digital and laser levels for surveying	Setting out and surveying by GNSS, survey data download	BIM in detail How to work as a BIM coordinator
Day 5	AutoCAD for beginners	AutoCAD for engineers	Learning to fly drones Register for a flyer ID and an Operator ID
Day 6	Introduction to Total Stations	Setting out groundworks, foundations, and RC frames	Operator ID test preparation
Day 7	Measuring angles, distances, heights, areas, and volumes	Setting out steel frame structures, holding down bolts	REVIT software
Day 8	Traversing, establishing new site controls	Setting out openings in floors and walls, stairs, and ramps, GNSS revision	REVIT software
Day 9	Traversing continued	Surveying, as built surveys, topographic surveys by GNSS and Total stations	Ordering concrete and rebar Quality assurance As-built surveys
Day 10	AutoCAD for beginners	AutoCAD for engineers	Level 3 Mentoring Award Assessment

Beginner to enhanced learners can repeat the afternoon sessions one more time at no extra cost. Learners will also attend the 4th weekend of the month for First Aid at Work training

I have attached the Level 3 Diploma in Engineering Surveying qualification handbook, as well as a booking form. Please don't hesitate to contact me if you need any further information.

The next weekday training starts on Monday, 1st to Saturday, 13th of September.

The next weekend training starts on Saturday, 2nd of August, and runs for two Saturdays and three Sundays per month.

Kind regards,

Reza Nobakht

Director