



2020/2021

**TRAINING &  
DEVELOPMENT**

Training in Architecture  
Engineering & Construction

# Apprenticeship Information Brochure

# OVERVIEW

## ABOUT US

We are a National Training Provider offering a variety of Apprenticeship Programmes including Design & Draughting, Digital Construction/Engineering, Project Controls, Civil Engineering, Steel Fixing and a range of Business apprenticeships including Assessor/Coach.

We also offer a number of short courses and online virtual learning courses which are aimed at the Architectural, Engineering & Construction sectors and is delivered by our team of industry experts.

T3 Training & Development was formed to initially address the significant lack of formal/specialist training in the construction industry for engineers and technicians. Therefore, we have developed various intensive fast track programmes along with high quality training and assessment methods to deliver apprentices into the workplace with the skills, knowledge and understanding required of their job role.

## CONTACT DETAILS

We have offices in Barnsley and London Thamesport.

Head office: c/o BBIC, Innovation Way, Barnsley, S75 1JL

Training Suite: Think Low Carbon Centre, Honeywell Lane, Barnsley, S75 1BP

Telephone: 01226 610201      Email: [training@t3-training.com](mailto:training@t3-training.com)      Website: [www.t3-training.com](http://www.t3-training.com)

## WHAT IS AN APPRENTICESHIP

An Apprenticeship is a genuine job with an employer along with a structured training plan in order to gain skills, knowledge and behaviours required in that job role. It means you can earn while you learn and gain nationally recognised qualifications and standards.

You will gain valuable on the job experience, whilst earning a wage, and working towards achievement of a nationally recognised apprenticeship standard.

An Apprenticeship with T3 Training & Development is a great way to access specialist training, practical experience and knowledge that can be used throughout your career. Our mission is to deliver high quality training to people wanting to develop a career in the Architecture, Engineering & Construction Sector.

We work with employers both locally and nationally to recruit apprentices that will meet the needs of their growing business and offer industry led training programmes.

Apprenticeships are being widely encouraged and promoted by the government to give young people further options when leaving school and they offer incentives to employers to recruit apprentices to join and expand their workforce.

Apprenticeships are an ideal progression route if you prefer to learn in a hands on and practical environment that will give them the work experience that college and sixth form can't.

Sixth Form and College are not the only option when you leave school and applying for an apprenticeship may not have been offered as an opportunity, however with 100's of employer's advertising apprenticeship vacancies it seems like the best option for a young person to earn money, gain work experience and qualifications that will still lead to progression opportunities where you can attend university and achieve a degree in your chosen field.

## WHY AN APPRENTICESHIP?



You can only apply for University once a year, whereas an apprenticeship can start at any point throughout the year



Apprentices earn up to £100,000 more than those who go to university



Industry experience, making you stand out!



Rocket to success start working today!



No debt as training is fully funded



Gain an industry led qualification in a specialised area.

## ENTRY REQUIREMENTS

Generally, employers request that applicants meet the following requirements:

- 5 GCSE's 4-9 (A-C) including Maths, English and Science
- Genuine interest in Construction, Engineering or Architecture
- Desirable qualities:
  - Interest in Design Technology, Art, IT
  - Good communication skills
  - Attention to detail

## PROCESS

Employers contact T3 Training & Development looking to recruit an apprentice. We discuss all the employer's requirements and advertise their apprenticeship vacancy for them. We advertise these by way of Indeed, on our social media pages, on our website and on the National Apprenticeship Website. We also advertise the vacancies at school / career events and at our own events.

We review all applicants to ensure they meet the employer's requirements. We also carry out the initial interviews at our training facility and approve candidates ready to submit to the employer.

Once all candidates have been interviewed the approved candidates are submitted to the employer. The employer will review these and select the candidates they would like to interview.

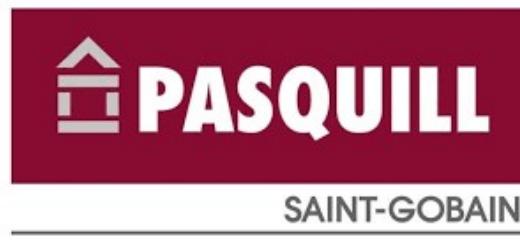
Employer interviews normally take place at the employer's office address. They will ask a series of questions in all candidate interviews. Once all of the interviews have taken place, they will decide who they would like to employ as their apprentice and offer the position to the right candidate.

Once the offer has been accepted by the candidate, they can start the apprenticeship program. This will include being inducted onto the course, initial assessments will be completed and if you require any additional support this will be identified.

Depending on the type of apprenticeship you sign up to will depend on what training and what qualification you will be enrolled on. This is all mentioned in our apprenticeship programme information.

## WHO WE WORK WITH

Here are a few examples of who we currently work with:



# OUR TRAINING PROGRAMMES

## DESIGN & DRAUGHTING APPRENTICESHIP

**Suitable for people interested in the following careers:**

*CAD Technician, Reinforcement Engineer, Architectural Assistant, Design Assistant, Structural Engineering Technician, BIM Technician, Draughtsperson*

A design and draughtspersons produce designs and drawings for all the components used in industrial and commercial construction.

Engineering design is needed in the modern world and is all around us. Whether its developing buildings, bridges, power stations, underground tunnels or components for engineering systems, every part of our existence is subject to change, development and improvement.

The essential skills of Computer Aided Design using modern software and advanced technologies to design and create are part of the training and development involved in this role.

### **What is involved?**

#### ***The skills you will develop:***

- Create technical drawings to specifications and draughting conventions
- Develop design options as solutions to construction engineering problems
- Think innovatively and communicate effectively
- Communicate design information to internal and external parties
- Complete designs, produce and handover the final design package

#### ***The knowledge you will gain in:***

- Understand technical drawings and specifications
- Health & Safety and environmental implications
- Interpret technical information
- Understand factors that affect design

#### ***What qualifications will you achieve:***

As part of the Design and Draughting Apprenticeship you will complete the following:

- 30 Month Apprenticeship programme
- Specialist Training programme
- Level 3 in Design and Draughting
- Level 3 Diploma in Construction and the Built Environment

*You can then progress on to a Higher Apprenticeship, HNC or Foundation Degree*

## DIGITAL ENGINEERING APPRENTICESHIP

### Suitable for people interested in the following careers:

*Digital Engineering/Construction Technician, CAD/BIM Technician, Design Assistant, Structural Engineering Technician, Surveyors or Site Engineers*

This role will involve working with the digital lead/information managers, key stakeholders and wider project to facilitate the implementation of digital engineering and construction throughout the business.

The role is to produce detailed solutions to achieve performance of built environment projects via digital models and presentation using software, sketches and electronic visualisations. A supporting role for a Digital Engineer or other functional specialists completing complex tasks such as:

- Digital measurement of design, production and management assets
- Communication of complex engineering principles to stakeholders digitally
- Integration of construction data and information throughout the whole lifecycle of the asset
- Adherence to the standards and regulations of digital information

### What is involved?

#### *The skills you will develop:*

- Produce detailed design solutions for the built environment
- Complete engineering designs, drawings and schedules
- Communicating design options
- How to carry out measured surveys
- How to create BIM models

#### *The knowledge you will gain in:*

- Evaluating and understanding factors affecting design
- Developing engineering design options and evaluating them
- Maintaining professional relationships and practice
- Understanding BIM models and using BIM tools

#### *What qualifications will you achieve:*

As part of the Apprenticeship you will complete the following:

- 30 Month Apprenticeship programme
- Specialist training programme
- NVQ Level 3 in Built Environment Design
- Level 3 Diploma in Construction and the Built Environment

*You can then progress on to a Higher Apprenticeship, HNC or Foundation Degree*

## PROJECT CONTROL APPRENTICESHIP

### Suitable for people interested in the following careers:

*Project Control, Construction Site Management, Project Engineers, Planners, Logistics Control, QS, Post Graduates, Junior Management*

In this type of role, it is typical for project controllers to work in large project teams on complex projects in sectors such as construction, manufacturing, engineering, energy, transport, utilities, infrastructure – where detailed progress/performance tracking, and an understanding of on-site hazards, health and safety requirements and compliance is critical.

Your role will include tasks such as estimating, planning, scheduling and cost control. A Project Controller identifies and develops project controls such as programmes, cost breakdowns, budgets and schedules, while considering external factors, risks and commercial requirements.

You will learn the fundamental aspects of project control, such as the project processes, document controls, procurement, monitoring, commissioning and handover. You will work towards improving performance which will lead to a direct impact on site management throughout.

### What is involved?

#### *The skills you will develop:*

Fundamentals of Project Control	Estimating, Planning and Costing
Progress Monitoring	Document Control
Continuous Improvement Techniques	Technology and Innovation

#### *The knowledge you will gain in:*

- Interpreting technical information
- Analysing performance and forecasting trends
- Understanding H&S Hazards and H&S Compliance
- Improving build performance

#### *What qualifications will you achieve*

As part of the Apprenticeship you will complete the following:

- 30 Month Apprenticeship Programme
- Specialist training programme
- Level 3 Diploma in Project Controls Practice & Techniques

*Achieving this apprenticeship programme can enable you to progress on to a Higher Apprenticeship*

## CIVIL ENGINEERING TECHNICIAN APPRENTICESHIP

A Civil Engineering Technician provides technical support to engineers and other construction professionals in the design, development, construction, commissioning, decommissioning, operation or maintenance of the built environment and infrastructure. Technicians will have a broad skills base to work in areas which include sustainable construction, structural integrity, geotechnics, materials, waste management, flood management, transportation and power.

### **What is involved?**

The learner will be trained in all aspects of civil engineering such as:

- AutoCAD
- BIM
- Project management
- Surveying
- Engineering techniques
- Design and construction processes
- Sustainability.

### **What qualifications will you achieve**

As part of the Apprenticeship you will complete the following:

- 30 Month Apprenticeship Programme
- Civil Engineering Skills, Knowledge & Behaviours – assessed in the workplace
- Specialist training programme
- Attendance of Specialist Training Programme - delivered in Barnsley

*Achieving this apprenticeship programme can enable you to progress on to a Higher Apprenticeship*

## SURVEYING TECHNICIAN APPRENTICESHIP

**Suitable for people interested in the following careers:**

*Building Surveying, Property Surveying, Land Surveying, Quantity Surveying Technician.*

The main duties include collecting information, take appropriate measurements, meet with other professionals, collect and record data, manage work tasks, undertake costings and ensure safe working environments.

### **What is involved?**

The learner will be trained in all aspects of surveying such as:

- Law
- Data Collection
- Economics
- Construction Technology
- Surveying
- Sustainability

### **What qualifications will you achieve**

As part of the Apprenticeship you will complete the following:

- 30 Month Apprenticeship Programme
- Surveying Technician Skills, Knowledge & Behaviours – assessed in the workplace
- Level 3 Diploma in Surveying
- Attendance of Specialist Training Programme - delivered in Barnsley

*Achieving this apprenticeship programme can enable you to progress on to a Higher Apprenticeship*

## STEEL FIXING LEVEL 2 APPRENTICESHIP

### **Suitable for students interested in the following careers:**

*Construction Steel Fixer, Steel Fitter & Construction Site Supervisor*

The primary role of a steel fixer is to assemble and erect the steel reinforcement required to strengthen reinforced concrete structures such as bridges, culverts, docks, industrial plants, power stations, railway stations, reservoirs, sub-ways, water treatment, viaducts, multi storey concrete frames and sewerage plants.

The steel fixer will typically be working as part of larger team on a construction project in which they will have responsibility for positioning, assembling and fixing of different shapes and sizes of steel rebar to the correct specification and tolerances. The steel fixer will be able to interpret contract information, drawings and specifications in order to assemble and install the components correctly.

## What is involved?

### ***The skills you will develop include:***

- Apply general workplace health, safety and welfare requirements when undertaking construction steel fixing activities.
- Apply safe working techniques for moving, lifting and handling pre-assembled and manufactured elements, working at heights and using access equipment.
- Read, interpret and work to 2D drawings, 3D BIM Models specifications and construction information.
- Assemble, position and fix manufactured elements.
- Use a range of reinforcing steel products to shape and assemble structures to specification, both on and off the construction site.
- Cut, bend and connect reinforcing steel.
- Couplers and threaded bar application.
- Position and fix pre-assembled elements and reinforcing steel.
- How to operate digital tools to aid steel fixing.

### ***The knowledge you will gain include:***

- Health, safety & welfare in relation to work activities.
- How to communicate with others and follow organisational procedures.
- The different techniques to move, lift and handle pre-assembled and manufactured elements, and move, handle and store resources.
- How to interpret and comply with information from BIM Models, drawings and specifications.
- The different types of reinforcing bars and how they work together including coupling and fixing.
- The methods of installing prefabricated and manufactured elements.

## T3 Training & Development

- How to install reinforcing steel in-situ.
- Offsite construction, transportation, storage and assembly.
- The different types of risks associated with working with reinforcing steel.
- Fabrication of offsite rebar and solution's

### ***What qualifications will you achieve***

As part of the Steel Fixer Apprenticeship you will complete the following:

- 15 month Apprenticeship programme
- Level 2 Steel Fixer Apprenticeship Standard
- Specialist Training programme delivered by industry experts on a live site (see below)

*You could then progress on to a Higher Apprenticeship and an occupational or site supervisory role within the construction industry.*

## CONSTRUCTION DESIGN & BUILD TECHNICIAN HIGHER APPRENTICESHIP LEVEL 4

**Suitable for students interested in the following careers:**

*CAD Technician, Reinforcement Engineer, Architectural Assistant, Design Assistant, Structural Engineering Technician, BIM Technician, Draughtsperson, Design Co-ordinator/Manager*

### What is involved?

***The skills you will develop:***

- Assessment and presentation of client requirements
- Implement the most appropriate solutions for construction projects
- Develop detailed designs
- Prepare and present design proposals and solutions to meet client requirements
- Control document production and co-ordinate design information
- Inspect and report on quality standards
- Assist in commissioning of finished construction projects
- Understand financial and legal constraints and the importance of cost control

***The knowledge you will gain in:***

- Construction Practice and Management
- Construction technology
- Legal & statutory Responsibilities in Construction
- Identify, define, plan, develop and execute a successful project
- Measurement & Estimating
- Understand factors that affect design

***What qualifications will you achieve:***

As part of the Construction Design & Build Apprenticeship you will complete the following:

- 2 ½ Year Apprenticeship programme
- Level 4 Construction and the Built Environment
- End Point Assessment – Project, Interview & Online Test

## BUILDING SERVICES ENGINEERING TECHNICIAN HIGHER APPRENTICESHIP LEVEL 4

**Suitable for students interested in the following careers:**

*Assistant Project Engineer, Assistant Engineer or Building Services Site Technician, Assistant Project Managers, Project Managers and Site Managers.*

### What is involved?

**The Skills & Knowledge you will develop:**

- Health & Safety
  - Identifying risk of activities and understanding the law and regulations*
- Sustainability
  - Assess, identify and record environmental impact of projects*
- Engineering Principles
  - Understand engineering techniques and Implement appropriate solutions*
- Project Management
  - Supervise building services workers and project lifecycles*
- Planning and Organising Work
  - Measuring and recording progress against plans*
- Monitoring Quality
  - Assist in commissioning of finished building services projects*

**What qualifications will you achieve**

As part of the Construction Design & Build Apprenticeship you will complete the following:

- 2 ½ Year Apprenticeship programme
- Skills, Knowledge and Behaviours through a portfolio of evidence in the workplace
- Level 4 Construction and the Built Environment
- End Point Assessment – Presentation and Structured Interview

## CONSTRUCTION SITE ENGINEERING TECHNICIAN HIGHER APPRENTICESHIP LEVEL 4

### Suitable for students interested in the following careers:

*Site Engineer, Assistant Site Engineer, Civil Engineer, Civil Engineering Technician, Project Engineer or Construction Site Technician, Based on site with occasional time in the office.*

You will be working on construction sites and as well as being able to deliver your own technical responsibilities you will also need to supervise and co-ordinate a workforce involved in the delivery of trades activities and ensure your safety and the safety of others. There will also be some liaison with third parties such as design teams, clients and statutory authorities.

## What is involved?

### ***The Skills & Knowledge you will develop:***

- Health & Safety
  - Identifying risk of activities and understanding the law and regulations*
- Sustainability
  - Assess, identify and record environmental impact of projects*
- Engineering Principles
  - Understand engineering techniques, principles of design and Implement appropriate solutions for construction projects*
- Project Management
  - Supervise construction workers and project management lifecycles*
- Planning and Organising Work
  - Measuring and recording progress against plans and analyse different techniques*
- Monitoring Quality
  - Assess and report on quality standards on finished construction projects*

### ***What qualifications will you achieve***

As part of the Level 4 Apprenticeship you will complete the following:

- 2 ½ Year Apprenticeship programme
- Level 4 Construction and the Built Environment
- End Point Assessment – 1500-word report, Presentation and Structured Interview

## OTHER APPRENTICESHIP PROGRAMMES

We also deliver several apprenticeship programmes within the Business and Management Sector as follows:

- Customer Service Level 2
- Customer Service Level 3
- Business Administrator Level 3
- Team Leader Supervisor Level 3
- Assessor Coach Level 4
- Operational Departmental Manager Level 5

If you are interested in any of these apprenticeships, please contact us for more information.

### SHORT COURSES

We also offer a variety of short courses as follows;

- BIM Fundamentals
- Autodesk Revit
- AutoCAD
- Reinforcement Detailing
- CAD RC Training
- Virtual Learning Courses in AutoCAD/BIM/Revit

## EVENTS

We host “Have a Go day” events where you can attend the one-day event to experience the role of a CAD Technician, Structural Engineer, Architectural Technician or BIM (Building Information Modelling) Expert.

You will be introduced to various job roles within the Architectural, Engineering & Construction sector and have the chance to apply for the apprenticeship vacancies we have on offer.

You will see how buildings are designed and have a go on the software's used in the industries - AutoCAD (Computer Aided Design), Revit & Tekla - 3D Modelling.

You can also undertake a short mock interview to help you further when applying for job roles in the industry and ask any questions you may have to find out if this is the right career for you.

## RECENT FEEDBACK FROM LEARNERS

Here is some recent feedback from students who have completed the Specialist Training course with ourselves:

“Very useful and helps you gain knowledge about the different software’s used. Very enjoyable”

“Because of this course I will now be able to improve my knowledge and skills of the software when I’m back at my workplace”

“They have given me a good foundation to work from and gave me confidence to go back to my employer ready to work”

“The course has been very good and very useful, and I’ve learned a lot of new skills”

“Very good teaching and anyone can learn a lot even if they have never used CAD before”

“It is easy to learn thanks to good quality teaching and software is of a high standard”

“My knowledge has improved massively since I have been on this course. Overall an amazing course”

## HOW TO APPLY & SOCIAL MEDIA

To apply for any of our vacancies or to mark your interest in our future events you can email your details to [training@t3-training.com](mailto:training@t3-training.com).

You can also request and complete our application form if applying for a vacancy again this can be requested via email.

You can also call us on 01226 610201 if you have any questions or if you would like to discuss a vacancy we have.

We do advertise all of our vacancies on our website and on social media. Below is a list of those details.

Website: [www.t3-training.com](http://www.t3-training.com)

Facebook: T3.Traininganddevelopment

Twitter: T3\_TandD

Instagram: t3.training

LinkedIn: T3 Training & Development