



Training in Architecture
Engineering & Construction

2018/2019

T3 Training and Development

Course Information for Employers

OVERVIEW

ABOUT US

We are a National Training Provider offering a variety of Apprenticeship Programmes including Design & Draughting, Digital Construction/Engineering, Construction Professional/Technical & Project Control. We also offer a number of short courses, evening courses and NVQ only training at our training suite in Barnsley or on site/in the workplace. All our training is aimed at the Architectural, Engineering & Construction sectors and is delivered by our team of industry experts.

We needed to 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.

We have built upon the experience of our founding companies and directors to build programmes that bring value to your business and are tailored to meet the needs of the learners and the employers. Our aim is to bridge the gap between young talent and experience to deliver apprentices into the workplace ready to deliver whilst educating and inspiring them to succeed in this industry.

We are a private training provider with the flexibility to offer bespoke training and development to meet your business's needs.

CONTACT DETAILS

We have offices in Barnsley, Retford & Bristol.

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-uk.com Website: www.t3-training.com

APPRENTICESHIPS

ADDITIONAL BENEFITS

We offer assistance in finding and recruiting your apprentice by advertising, sifting, pre-interviewing and approving suitable learners for you to recruit. This is all free of charge.

We offer front loaded intensive specialist training options by industry experts to allow new starts to hit the ground running followed by continued support and assessment from our team.

Apprenticeships can start anytime. Our block training options are programmed in throughout the year for apprentices to enrol on. Specialist training is optional and can be attended in modules and blocks to meet your needs on a week by week basis. Progression to HNC/Degree is an option on completion of an apprenticeship.

PRIVATE TRAINING

We offer a range of specialist short courses aimed at the AEC Sector. With flexible delivery options on and off site and also on an evening.

All our qualifications are available as an NVQ only option. Funding may be available to you through local funding bodies or grants.

We can offer tailored training courses to meet your company requirements so if the course you require isn't listed please contact us.

DESIGN & DRAUGHTING APPRENTICESHIP

SUITABLE FOR:

CAD Technician, Reinforcement Engineer, Architectural Technician, Design Assistant, Structural Engineering Technician, BIM Technician, Draughtsperson or M&E Technician.

The units are suitable for structural, electrical, control and instrumentation, mechanical and piping Design and Draughtspersons.

LEARNING OUTCOME:

The apprentice will be trained in aspects of disciplines such as principles of design, identify and analyse design options and selecting the appropriate design, types of drawings and specifications, characteristics of materials, producing drawings using appropriate computer aided design packages such as AutoCAD, Revit and or Tekla and abbreviations and symbols used in design and draughting.

QUALIFICATION AND TRAINING

- 2 ½ Year Apprenticeship Programme
- Level 3 diploma in Design and Draughting – *delivered in the workplace*
- Level 3 BTEC in Construction and the Built Environment – *Day Release or Remote Delivery*
- Intensive specialist training programme in the following:
 - 2D & 3D AutoCAD
 - Structural Detailing
 - BIM / Revit
 - Tekla Structures
 - RC Detailing
 - Surveying

DIGITAL ENGINEERING APPRENTICESHIP

SUITABLE FOR:

Digital Engineering/Construction Technician, CAD Technician, Reinforcement Engineer, Architectural Technicians, Design Assistant, Structural Engineering Technician, BIM Technician or Draughtsperson, Surveyors or Site Engineers

LEARNING OUTCOME:

The conclusion of Digital Construction/Engineering Fundamentals will leave the Learner with knowledge of BIM and the type of data that can be contained within a BIM model and its use throughout the project lifecycle. It will provide hands on training so that the learner can create a BIM model and manipulate, review and manage external models.

Learners will also develop an understanding of design control and workflows including a practical workshop showing how this will be managed using BIM tools to appropriate Standards.

QUALIFICATION AND TRAINING

- 2 ½ Year Apprenticeship Programme
- NVQ Level 3 Built Environment Design – *assessed in the workplace*
- Level 3 BTEC in Construction and the Built Environment – *Day Release or Remote Delivery*
- Specialist training delivered in Barnsley in the following:
 - Introduction to BIM
 - BIM Stages, COBie, BIM RIBA, PAS1192, BIM Protocol
 - Roles and responsibilities
 - Common data environment
 - Introduction to Revit

CONSTRUCTION TECHNICAL & PROFESSIONAL APPRENTICESHIPS

SUITABLE FOR:

Site Technician, Quantity Surveyor, Estimator, Site Surveyor, Design Project Control, Buyers, Assistant Site Managers, Building Control, Planning, Site Technical Support

LEARNING OUTCOME:

This apprenticeship is suitable for employees working within a range of professional and technical roles within the construction industry. It also provides the opportunity to progress onto higher levels in construction.

The qualifications involved enable you to recognise your skills, knowledge and understanding and to allow you to demonstrate your competence in a real workplace environment in the construction industry.

The advanced level apprenticeship in technical occupations has been meeting the needs of the employer since the mid 90's.

QUALIFICATION AND TRAINING

- 2 Year Apprenticeship Programme
- NVQ Level 3 in Construction Contracting Operations – *delivered in the workplace*
- Level 3 BTEC in Construction and the Built Environment – *Day Release or Remote Delivery*

PROJECT CONTROL APPRENTICESHIP

SUITABLE FOR:

Project Control, Operational Management, Project Engineers, Planners, Logistics Control, QS, Post Graduates, Junior Management

LEARNING OUTCOME:

The learner will be trained in all fundamental aspects of project control, such as the project processes, document controls, the procurement process, estimating, planning and scheduling, cost control and monitoring, project optimisation and risk analysis.

The training can improve project performance capability – quality, cost and delivery – leading to a direct impact on defined project outcomes.

QUALIFICATION AND TRAINING

- 2 ½ Year Apprenticeship Programme
- Level 3 Diploma in Project Controls Practice and Techniques - *delivered in the workplace*
- Facilitated training in the workplace to suit your requirements including, for example:
 - Effective communication and behaviour
 - Fundamentals of project control
 - Estimating, planning, cost techniques and commercial awareness
 - Procurement activities
 - Risk and opportunity management
 - Lean optimisation practice and techniques
 - Scheduling practice and techniques
 - Scope interpretation and project controls planning
 - Roles & responsibilities
 - Work, cost breakdown and coding structures
 - I. T. software and data controls

SHORT COURSES - AUTOCAD

COURSE AIMS

This course is aimed at new users of AutoCAD or AutoCAD LT. It is taught at beginner's level therefore no previous knowledge of AutoCAD is required. However, attendees should possess basic PC knowledge. Prior knowledge of draughting would be an advantage but not essential. Course content can be tailored to the needs and level of each group or organisation.

COURSE OUTLINE

- Launch and Configure AutoCAD
- Navigate AutoCAD
- Understand the Ribbon Interface, Shortcut Keys and Function Keys
- Object Snaps and Object Tracking
- Basic Drawing Creation – Lines, Arcs, Shapes, Details, Hatching
- Basic object editing
- Object Annotation – Text and Dimensions
- 1st and 3rd Angle Projection
- Basic Drawing Production Including Plans, Elevations and Sections
- Introduction to 3D Cad

COST AND DURATION

- Cost: £595
- Location: Barnsley or on site (depending on numbers)
- Time: 3 Days Delivery 9.00am – 4.30pm

SHORT COURSES – RC DETAILING

COURSE AIMS

To be able to read reinforcement and design intent against Standards such as the Standard Method of Detailing Structural Concrete.

Determine the most suitable method of detailing to given constraints such as site restrictions and construction programme and produce reinforcement details and bar bending schedules to align to these constraints. Basic CAD experience would be an advantage.

COURSE OUTLINE

- What is Reinforced Concrete
- Basic Design Principles
- Documentation and Principles – Standard Method of Detailing Structural Concrete, BS 8666:2005 & EC2
- The role of a detailer: Drawing production/Bar Bending Schedule production
- Detailing Principles – Construction Sequence, Buildability, Laps, Anchorage, Cover etc
- Detailing Exercises such as:
 - Pile Caps
 - Ground Beams
 - Columns
 - Walls
 - Flat Slabs
- Proprietary Systems – couplers, kwikastrip, shear rail etc

COST AND DURATION

- Cost: £595
- Location: Barnsley or on site (depending on numbers)
- Time: 3 Days Delivery 9.00am – 4.30pm

SHORT COURSES – REVIT (STRUCTURES)

COURSE AIMS

To gain an understanding about BIM (Building Information Modelling) and the associated standards and publications.

To be able to operate Revit and produce structural drawings, details and schedules from modelled components which include foundations, floor plans, walls, columns, beams etc. You will also be able to modify components, materials etc to suit specific design requirements.

By the end of the course the attendees will be able to insert CAD, Revit & IFC files into Revit and also export robust IFC's to enable interface with other software.

COURSE OUTLINE

- What is BIM and the associated standards
- Launch Revit and start a new project
- Understand shortcut keys and ribbons
- Inserting and modifying components such as foundations, columns, beams, walls, slabs
- Creating plans, sections, views and callouts
- Creating drawings
- Adding dimensions and text to drawings and details
- Creating schedules for components within the model
- Naming conventions in line with BS 1192

COST AND DURATION

- Cost: £595
- Location: Barnsley or on site (depending on numbers)
- Time: 3 Days Delivery 9.00am – 4.30pm