

## CONSTRUCTION DESIGN AND BUILD TECHNICIAN Apprenticeship Standard

### 1. Occupation(s)

The occupation covered by this standard is Construction Design and Build Technician and typical job titles can include: Assistant Design Co-ordinator or Design and Build Co-ordinator. In the case of SME construction companies the roles are likely to include Design Co-ordinator or Design Manager. They are associated with the co-ordination of design information on construction projects and are based on construction sites with occasional time in offices.

### 2. Occupational profile

The main duties and tasks of a Construction Design and Build Technician are:

- Identification of client requirements in construction projects
- Identification of health and safety risks in the design of projects
- Checking of compliance with regulations on a construction project
- The minimisation of the environmental impact of construction projects
- Assisting architects with the development of detailed design on a construction project
- Co-ordinate design information on a construction project
- Monitoring of quality on a construction project
- Assisting commercial staff with the monitoring of costs on a construction project

### 3. Requirements: Knowledge, Skills (and behaviours)

| Knowledge                      | What is required  |
|--------------------------------|---|
| <b>Client Requirements</b>     | Know how to analyse client requirements and ensure comprehensive survey information                             |
| <b>Health and Safety</b>       | Understand risk assessment of design solutions and the importance of behaviours in safety-critical environments |
| <b>Sustainability</b>          | Understand the sustainability issues in projects across economic, social and environmental aspects              |
| <b>Construction Technology</b> | Understand different construction methods and materials and building regulations                                |
| <b>Develop Designs</b>         | Understand how to develop detailed designs in line with client requirements and construction process            |
| <b>Design Documentation</b>    | Understand how to co-ordinate design information in both electronic and paper form                              |
| <b>Monitor Compliance</b>      | Understand construction contracts and client quality standards  |
| <b>Monitor costs</b>           | Understand the importance of cost control on a construction project   |

| Skills                         | What is required  |
|--------------------------------|---|
| <b>Client Requirements</b>     | Assist in the assessment and presentation of client requirements  |
| <b>Health and Safety</b>       | Identify risk in designs and suggest actions to reduce risks  |
| <b>Sustainability</b>          | Assess, identify and record the environmental impact of projects  |
| <b>Construction Technology</b> | Assist in the implementation of the most appropriate solutions for construction projects whilst maintaining adherence to building regulations |
| <b>Develop Designs</b>         | Prepare and present design proposals and solutions  |
| <b>Design Documentation</b>    | Control document production and design information  |
| <b>Monitor Compliance</b>      | Inspect and report on quality standards and assist in commissioning of finished construction projects   |
| <b>Monitor costs</b>           | Understand financial and legal constraints and measure and record progress against budget   |

| <b>Behaviours</b>                           | <b>What is required</b>  |
|---|--|
| <b>Professional Judgement</b>               | Be able to work within own level of competence and know when to seek advice from others  |
| <b>Commitment to Code of Ethics</b>         | Work within Rules and Regulations of Professional Competence and Conduct for the Chartered Institute of Architectural Technologists      |
| <b>Continuing Professional Development</b>  | Identify own development needs and take action to meet those needs. Use own knowledge and expertise to help others when requested.       |
| <b>Commitment to Equality and Diversity</b> | Understand the importance of equality and diversity and demonstrate these attributes so as to meet the requirements of fairness at work. |
| <b>Communicate Effectively</b>              | Be able to contribute effectively to meetings and present information in a variety of ways including oral and written.                   |
| <b>Work in Teams</b>                        | Be able to work with others in a collaborative and non-confrontational way.  |
| <b>Demonstrate Innovation</b>               | Be able to identify areas for improvement and suggest innovative solutions.  |

#### 4. Duration

The typical duration for this Apprenticeship is three years but this will depend upon the previous experience of the apprentice and access to opportunities to gain the full range of competence.

#### 5. Entry requirements

The typical entry requirements for this Apprenticeship will be five GCSEs or equivalent, including Maths, English and a Science; or a Level 2 Apprenticeship.

#### 6. Qualifications

The following qualification will be gained:

- HNC in Construction and the Built Environment

#### 7. English and Maths

English and Maths will be required to be demonstrated at Level 3 by the end of the Apprenticeship.

#### 8. Link to professional registration

This Apprenticeship will include the knowledge, skills and behaviours required to achieve Technician status with the Chartered Institute of Architectural Technologists (TCIAT). The Technician Review process for TCIAT is included in the end-point assessment process for this Apprenticeship and will lead to the designatory letters TCIAT and the status of Architectural Technician.

#### Level

This Apprenticeship standard is at Level 4.

#### Review date

This Apprenticeship standard should be reviewed three years after approval of the standard.