

CONSTRUCTION DESIGN AND BUILD TECHNICIAN

Reference Number: ST0043

Details of 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
Client Requirements	Know how to analyse client requirements and ensure comprehensive survey information
Health and Safety	Understand risk assessment of design solutions and the importance of behaviours in safety-critical environments
Sustainability	Understand the sustainability issues in projects across economic, social and environmental aspects
Construction Technology	Understand different construction methods and materials and building regulations
Develop Designs	Understand how to develop detailed designs in line with client requirements and construction process
Design	Understand how to co-ordinate design information in both electronic and

Documentation	paper form
Monitor Compliance	Understand construction contracts and client quality standards
Monitor costs	Understand the importance of cost control on a construction project
Skills	What is required
Client Requirements	Assist in the assessment and presentation of client requirements
Health and Safety	Identify risk in designs and suggest actions to reduce risks
Sustainability	Assess, identify and record the environmental impact of projects
Construction Technology	Assist in the implementation of the most appropriate solutions for construction projects whilst maintaining adherence to building regulations
Develop Designs	Prepare and present design proposals and solutions
Design Documentation	Control document production and design information
Monitor Compliance	Inspect and report on quality standards and assist in commissioning of finished construction projects
Monitor costs	Understand financial and legal constraints and measure and record progress against budget
Behaviours	What is required
Professional Judgement	Be able to work within own level of competence and know when to seek advice from others
Commitment to Code of Ethics	Understand and apply the Code of Conduct and conduct regulations, ethics and professional standards relevant to industry's recognised professional bodies.
Continuing Professional Development	Identify own development needs and take action to meet those needs. Use own knowledge and expertise to help others when requested.
Commitment to	Understand the importance of equality and diversity and demonstrate

Equality and Diversity	these attributes so as to meet the requirements of fairness at work.
Communicate Effectively	Be able to contribute effectively to meetings and present information in a variety of ways including oral and written.
Work in Teams	Be able to work with others in a collaborative and non-confrontational way.
Demonstrate Innovation	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

Individual employers will determine their own entry requirements, but 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:

- A Level 4 qualification in Construction and Built Environment that meets the knowledge requirements of the standard and is approved by the industry's recognised professional bodies meeting the educational requirements for Technician status or the equivalent level of membership.
- English and Maths; apprentices without level 2 English and Maths will need to achieve this level prior to taking the end-point assessment.

7. Link to professional registration

This Apprenticeship will include the knowledge, skills and behaviours typically required to achieve Technician status or the equivalent with the industry's recognised professional bodies. The final assessment process for this Apprenticeship will typically be representative of the review process required for professional registration.

Level

This Apprenticeship standard is at Level 4.

Review date

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



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