BUILDING SERVICES ENGINEERING TECHNICIAN Apprenticeship Standard

1. Occupation(s)

The occupation covered by this standard is Building Services Engineering Technician and typical job titles can include: Assistant Project Engineer, Assistant Engineer or Building Services Site Technician. In the case of SME building services engineering specialist contractors the roles are likely to include Assistant Project Managers, Project Managers and Site Managers. They are associated with the supervision of the installation' commissioning or servicing of environmental technologies on construction projects and are based on construction sites with occasional time in offices.

2. Occupational profile

The main duties and tasks of a Building Services Engineering Technician are:

- Supervision of the installation of environmental technologies into buildings
- Assisting design teams with building services engineering solutions on construction projects
- o Supervision of specialist contractors
- o Control of health and safety on construction projects
- o Recording, control and reporting of progress on a construction project
- o Minimisation of the environmental impact of construction projects
- o Control the quality of works on a construction project
- o Ensure compliance with contractual conditions on a project

3. Requirements: Knowledge, Skills and Behaviours

Knowledge	What is required
Health and Safety	Understand the principles and responsibilities imposed law and other regulations
	in a building services environment
Sustainability	Understand the sustainability issues in projects across economic, social and
	environmental aspects
Engineering Principles	Understand engineering techniques, procedures and methods and the principles of
	design
Project Management	Understand management principles and the project management lifecycle and the
	contractual conditions on a project
Planning and	Understand the importance of project planning and resourcing and be able to
Organising Work	analyse different techniques
Monitor Quality	Able to define the quality required and the commissioning process on a finished
	building services project

Skills	What is required
Health and Safety	Identify risk of activities and encourage all employees to demonstrate safety-conscious behaviours
Sustainability	Assess, identify and record the environmental impact of projects
Engineering Solutions	Assist in the implementation of the most appropriate solutions for building services projects
Project Management	Use effective management principles and be able to supervise building services workers, ensuring adherence to contractual conditions
Planning and Organising Work	Understand overall plan for project and measure and record progress against plan
Monitor Quality	Assess and report on quality standards and assist in commissioning of finished

	building services projects
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	Work within Rules and Regulations of Professional Competence and
Ethics	Conduct for the Chartered Institution of Building Services Engineers
Continuing Professional	Identify own development needs and take action to meet those needs.
Development	Use own knowledge and expertise to help others when requested.
Commitment to Equality	Understand the importance of equality and diversity and demonstrate
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 Chartered Institution of Building Services Engineers as meeting the educational requirements for EngTech LCIBSE

7. English and Maths

English and Maths at Level 3 will need to be achieved before taking the end point assessment and will form part of the Level 4 qualification.

8. Link to professional registration

This Apprenticeship will include the knowledge, skills and behaviours required to achieve Technician status with the Chartered Institution of Building Services Engineers (EngTech LCIBSE). The Technician Professional Review process for EngTech LCIBSE is included in the end-point assessment process for this Apprenticeship and will lead to the designatory letters EngTech LCIBSE and the status of Engineering Technician.

Level

This Apprenticeship standard is at Level 4.

Review date

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