

# BUILDING SERVICES ENGINEER TECHNICIAN (ST0063)

A building services technician provides assistance to engineers and other construction professionals in the development of cost effective technical and sustainable building services engineering solutions. Their work typically includes systems such as renewable technologies, heating, ventilation, air conditioning, drainage, lighting, power, controls and lifts.

## Core duties involve:

- **Building services engineering** – Understanding and applying core engineering and mathematical principles and techniques to assist in the development of technical building services engineering solutions.
- **Information and data analysis** – Collecting, interpreting and analysing information, which contribute to technical to building services engineering solutions.
- **Communication** – Using digital technologies, such as CAD and BIM, to prepare and produce engineering drawings to specifications, and to industry codes, practices and regulations.
- **Environmental impact and sustainability** – Using environmental policies and practicing sustainable principles to assist in sustainable development and net-zero carbon emissions.

## Key elements include:

- Working independently and as a member of a team.
- Ensuring safe systems of work are applied and risks mitigated.
- Using quality management and assurance systems to proactively plan, manage and contribute to projects.
- Working to improve the environmental, sustainability challenges, ethical conduct, and equality, diversity and inclusion.
- Carrying out and maintaining competence in line with professional codes of conduct.

## Approved training providers:



## Professionally recognised by:



**Technical Apprenticeship Consortium (TAC)**  
 Association for Consultancy and Engineering (ACE),  
 Alliance House, 12 Caxton Street, London, SW1H 0QL.  
 T: 020 7222 6557 [www.acenet.co.uk/resources/tac/](http://www.acenet.co.uk/resources/tac/)



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### Training programme:

- 30-month training plan.
- Entry with good GCSEs including Maths and English typically sought.
- Minimum 20% off the job training including completion of:
  - Mandatory Pearson BTEC in Building Services Engineering.
  - Development of competence via Pearson's Diploma in Building Services Engineering for Technicians
  - Portfolio of evidence prior to EPA.
- Development of EngTech competence supported by on the job mentors.

### Four month EPA:

- Mandatory four month End Point Assessment (EPA) to complete apprenticeship
- EPA Gateway requires successful completion of training programme and portfolio.
- EPA includes:
  - Project set by EPA organisation.
  - Professional Interview with portfolio.
- Grades: distinction/pass/fail.
- Aligned to EngTech professional review process with CIBSE
- Registered End Point Assessment Organisation: CIBSE.

### Funding band assigned:

£12,000 Funding band under review (May 2021).

### Additional costs:

- Providers may charge employers above the funding band.
- Professional membership and Engineering Council registration fees (optional).

**Reviewed and re-approved:** Revisions approved by IFATE in July 2021 and are now subject to minor revisions and funding band agreement prior to publication (expected August 2021). First approved in June 2017.

**Employers involved:** Arup, Atkins, Balfour Beatty, BDP, Canary Wharf Contractors, CBRE, Clancy, Crofton, Derry Building Services, Hoare Lee, Mott MacDonald, Static Systems Group, Troup Bywaters and Anders, Waterman, WSP

**Others involved:** BESA, Chartered Institution of Building Services Engineers (CIBSE)\*, College of North West London, Coventry University, Electrical Contractors Association (ECA), Institution of Engineering and Technology (IET), Institute of Healthcare Engineering and Estate Management (IHEEM), Lambeth College, Leeds College of Building, London South Bank University, Solihull College and University Centre, South Thames College.

\*advised EPA organisations

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