

Building Services Engineering Senior Technician Apprenticeship Standard



Course Level: Level 4

Campus: Stafford

Subject Type: Construction & Engineering

Course Overview:

Building services engineering senior technicians use their technical knowledge to deliver, or address problems with, building services systems that are to be designed, manufactured, installed, managed or maintained, within a building. The main types of building services systems are mechanical (heating, ventilation, and cooling), electrical (power, lighting etc) and public health (water services and drainage). With a focus on planning and installing electrical and mechanical systems within buildings, this apprenticeship will help you to develop a successful, long-term career within this sector.

What's Covered:

The broad purpose of the occupation is to bring the built environment to life by connecting up the buildings we live and work in, ensuring they meet the needs of the people, plant, and services they need to accommodate, whilst providing comfort, building safety and security and efficiency through ever increasing environmental safeguarding.

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In these areas, building services engineering senior technicians may consider:

- Safety and security, including emergency lighting, security and alarm systems, fire detection and prevention, emergency back-up systems, inclusive access, and flow through buildings for both people and equipment, including escalators and lifts.
- Efficiency and sustainability, including the capture, supply and use of energy (electrical, mechanical, and other power systems, renewable energy systems (such as solar, wind or heat pump sources), water supply and management (including plumbing and drainage), communication networks to aid integrated systems and intelligent buildings, and façade engineering.
- Comfort and control, including heating and ventilation, air conditioning and refrigeration, and lighting (artificial and natural) and acoustics.
- Building services engineering senior technicians use and apply their technical knowledge, underpinned by scientific principles and theories, propose numerous suitable techniques, procedures and methods to undertake and deliver building services engineering solutions. They need to source, review, analyse and evaluate a range of information and data, perform advanced calculations, and analyse building services engineering problems to reach proven solutions.

Entry Requirements:

In order to optimise success candidates will typically have 5 GCSE's at Grade C (Grade 4/5 in the new numerical GCSE grading system) or above, including Mathematics, English and a Science, Technology or Engineering related subject, and 90+ credits in Engineering at level 3. *(As further guidance, the level of Mathematics has an advisory GCSE level of grade B (Grade 5/6 in the new numerical GCSE grading system)

Assessment Information:

Your progress is continually monitored throughout the course. Assessments are arranged when necessary and these take place on-the-job.

Together with the college day release courses, which would be over 36 - 42 months.

The EPA consists of 2 assessment methods:

- Project with reporting
- Professional discussion underpinned by a portfolio evidence

Fees and Financial Support:

While you are on an apprenticeship your employer pays you a salary and supports you whilst you undertake your training

Progression:

If you successfully achieve all parts of the apprenticeship, your assessor will discuss with you and your employer the next steps to take. Dependent on your roles and responsibilities, this may be the next level of the subject you have been studying already or a different pathway.

What else do I need to know?

Curriculum Managers and Administrators, include an additional details enrichment activities involved within your course. Examples include; trips, visits, live briefs, guest speakers

How do I find out more?

Unsure if this is for you? Please contact our team on
info@sotsiot.ac.uk

. We look forward to hearing from you.