

Statement of Purpose

500/7283/3 – Pearson BTEC Level 3 Diploma in Mechanical Engineering (QCF)

The engineering sector offers huge potential for learners interested in the sector. The UK is currently regarded as a world leader in sectors including renewable energy, space, low carbon, aerospace, creative industries, utilities, automotive, agri-food and bioscience. Between 2010 and 2020 Engineering enterprises are projected to have 2.74 million job openings, including over 400,000 technician roles where the predominantly ageing workforce is expected to retire over the next 10 years.

The Pearson BTEC Level 3 Diploma (720 GLH) in Mechanical Engineering is part of a larger suite of BTEC Engineering qualifications, in a range of sizes, which share the common purpose of helping people to become occupationally ready to take up employment in the Engineering sector at the appropriate level. This can follow either directly after achieving the qualification, or via the stepping stone of Higher Education (HE) in university or college. By studying a BTEC National, learners develop knowledge, understanding and skills required by the sector, including essential employability skills, and apply them in real work contexts. Learners can operate at a standard that can reasonably be expected of an 18 year old in full-time education.

Within this suite, the Pearson BTEC Level 3 Diploma in Mechanical Engineering (720 GLH) is primarily a Technical Level qualification, equivalent in size to two A levels, which has been designed to occupy two-thirds of a full-time curriculum, enabling learners to develop a significant common core of knowledge, including Unit 1: Health and Safety in the Engineering Workplace, Unit 2: Communications for Engineering Technicians, Unit 3: Engineering Project, Unit 4: Mathematics for Engineering Technicians, Unit 5: Mechanical Principles and Applications, and providing extensive opportunity to study in more depth a range of option areas of their choice, such as Electrical and Electronic Principles and Engineering Drawing for Technicians. The Diploma allows time in the curriculum to study other qualifications alongside it, for example Mathematics, Business, English or Physics. The Pearson BTEC Level 3 Diploma in Mechanical Engineering is also approved as a Technical Certificate by SEMTA in a range of advanced apprenticeship frameworks, or it can be studied part time by learners in schools, colleges and other training provider organisations. Its size makes it appropriate as the core component of a Technical Baccalaureate programme, allowing time in the curriculum for the study and completion of the other mandatory components.

As the qualification was designed in close collaboration with industry, it is fully supported by the Sector Skills Council (SSC) for the sector SEMTA. A range of professional organisations/employers in the sector has also confirmed their support for this Pearson BTEC Level 3 Diploma in Mechanical. This means it is a highly respected route for those who wish to move into employment in the sector, either directly or following further study.

A significant proportion of recruitment in this sector is at graduate level. The Pearson BTEC Level 3 Diploma in Mechanical Engineering also provides a well-established route into a variety of specialist Higher Education (HE) courses in this sector and beyond when taken alongside other qualifications appropriate for the desired course of study. UCAS has reviewed the qualification to assess its value for access to higher education, and has allocated UCAS points. See details published on the Pearson website here:

<http://www.edexcel.com/i-am-a/student/results/Pages/BTEC-equivalence.aspx>

In addition, a number of universities have individually confirmed that this Pearson BTEC Level 3 Diploma in Mechanical Engineering fulfils their entry requirements when achieved alongside other qualifications.