

## Statement of Purpose

### 500/7314/X – Pearson BTEC Level 3 Extended Diploma in Manufacturing 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 Extended Diploma (1080 GLH) in Manufacturing Engineering is part of a larger suite of BTEC 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 Extended Diploma in Manufacturing Engineering (1080 GLH) is primarily a Technical Level qualification, equivalent in size to three A levels**, which has been designed as a full two-year programme of study, enabling learners to develop a substantial common core of knowledge, including Health and Safety in the Engineering Workplace, Communications for Engineering Technicians, Engineering Project, Mathematics for Engineering Technicians, and allowing them the maximum opportunity to study in more depth a full range of option areas of their choice, such as Computer Aided Drafting in Engineering and Applications of Computer Numerical Control in Engineering. It is mainly designed for those learners who know in which sector they would like to specialise. Learners can achieve breadth of study through the large core and extensive options, rather than by studying complementary qualifications alongside it. The qualification allows learners to develop the wide-ranging knowledge, understanding and skills required for direct progression into a broad range of roles within the industry they are going to be a part of. It also meets the needs of those who wish to progress first to further study. The Pearson BTEC Level 3 Extended Diploma in Manufacturing Engineering is also approved as a Technical Certificate by SEMTA in a range of advanced apprenticeship frameworks.

As the qualification was designed in close collaboration with industry, it is fully supported by the Sector Skills Council for the Engineering sector, SEMTA. A range of professional organisations/employers in the sector has also confirmed their support for this Pearson BTEC Level 3 Extended Diploma in Manufacturing Engineering. 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 Extended Diploma in Manufacturing Engineering also provides a well-established route into a variety of specialist Higher Education (HE) courses in this sector and beyond, fully meeting entry requirements for most courses. 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 Extended Diploma in Manufacturing Engineering fulfils their entry requirements, either on its own or when achieved alongside other qualifications.