

Engineering

Qualification: Engineering Diploma

Introduction

As part of the 14-19 reform programme, the Qualifications and Curriculum Authority (QCA), the Department for Children, Families and Schools (DCFS) and the Skills for Business Network (SfBN) are developing a new qualification – the Specialised Diploma.

Here at Lambeth Academy we are privileged to be piloting the Specialised Diploma in Engineering.

The Specialised Diploma is about learning a range of widely applicable skills and knowledge, set within the context of a specific employment sector. The Specialised Diploma offers a unique blend of general and applied learning. Applied learning – acquiring knowledge and skills through tasks and context that have many of the characteristics of real work – is at the heart of the Specialised Diploma. The Diploma is the equivalent of 7 GCSEs

Course Content

The course will cover a range of generic engineering concepts that underpin all engineering sectors. Students will have the opportunity to experience all facets of engineering and gain an understanding of each of the six sectors relating to engineering – automotive maintenance; oil, gas, chemical and nuclear; energy and utilities; passenger transport; engineering manufacture and building services.

Students study 3 themes: the engineered world, discovering engineering technology and engineering the future.

The topics studied include practical engineering and communications skills, using computer-aided engineering, routine maintenance operations, an introduction to engineering materials, electronics, engineering design, applications and computers, producing engineering solutions, constructing electronic and electrical systems, maintenance, enterprise and technological advance.

Personal learning and thinking skills are central to the Diploma, with opportunities for team work, investigation, self management and independent enquiry. There are many opportunities to develop and apply mathematical and scientific skills and knowledge within an engineering context.

Why study the Engineering Diploma?

Engineering will suit students who are good at and enjoy maths and science (physics) but would like to use and develop their maths and science skills in a way that relates to the world of work. This Engineering Diploma will give students a real alternative to traditional learning styles by offering an imaginative, high quality blend of general education and applied learning. Our Diploma will take our students wherever they want to go, whether that is to studying Engineering at further and higher education level or to the amazing world of Engineering work.