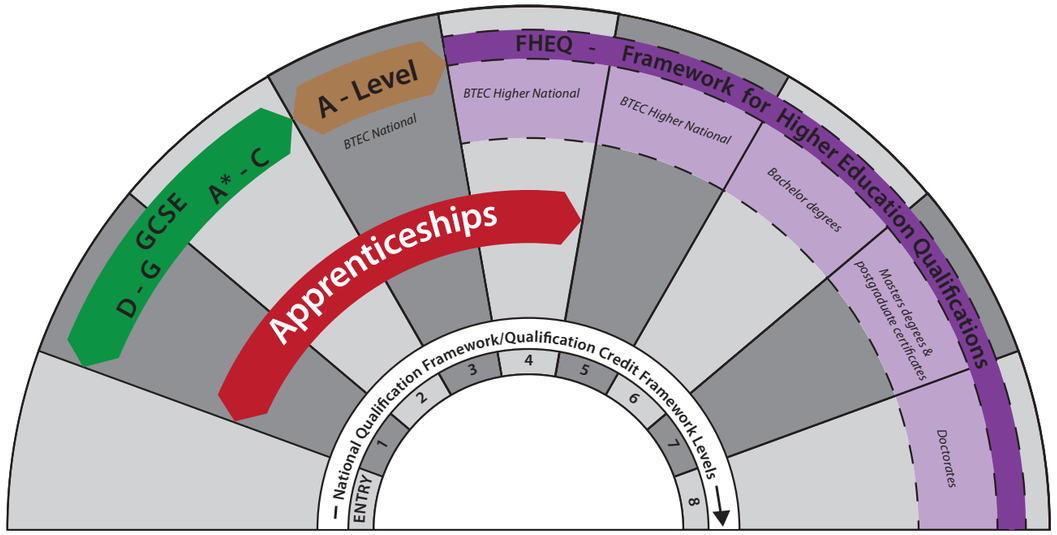
Curriculum mapping

	Science/Physics	Technology/ Computer Science	Aviation	Automotive
Level 4, 5, 6 Levels 4, 5, 6 correspond to BTEC Higher National Diploma, or degree level at 18+ years old			EASA electrical fundamentals. EASA module 3. LK9339. EASA electronic fundamentals. EASA module 4. LK9282.	
Level 3 Level 3 corresponds to A level or BTEC National Diploma usually at an age of 18 years old	Physics A level kit. KS5. LK9329. A level Physics class pool kit. KS5. LK6802.			Sense and control in automotive applications. Level 3. LK9834. CAN bus systems and operation. Level 3. LK7629. Hybrid vehicle demonstration system. Level 3. LK6483.
Level 1, 2 Level 2 corresponds to GCSE grades A-C at 16 years old, or BTEC First	Electricity, magnetism and materials kit. KS3 & KS4. LK9071. Energy and environment. KS4. LK7345. Fundamentals of electricity. KS1 & KS2. LK6444.	PIC micro microcontroller systems investigation. KS3/4. LK8922 Computer science and control 1. KS3/4. SE4829. Programming Arduino microcontrollers. KS3/4. HP7745. Programming the RPi. KS4. HP4390. Simple microcontroller circuits. KS3/4. SE3829.	Design and make electronic products. KS3/4. SE4855. Introduction to robotics. KS3/4. HP794. Automatics essentials solution. KS3/4. AU9020. Electro-pneumatics add-on kit. KS3/4. AU9015. Pneumatics control add-on kit. KS3/4. AU90910.	AC principles for Automotive technicians. Level 2. LK8222. Introduction to motors, generators, and hybrid. Level 2. LK7444. Introduction to digital electronics. Level 2. LK4221. Electricity, magnetism and materials kit. Level 1. LK9071.



Curriculum mapping

Engineering

Robotics/automation/ mechatronics

Mechatronic systems. Unit 57 HNC. HP4550.

Dynamic seat. Unit 57 HNC. HP8834.

Motor control training course. Unit 57 HNC. EB8493.

Automatics essentials solution. Unit 15 NC. AU9020.
Electro-pneumatics add-on kit. Unit 15 NC. AU9015.

Pneumatics control add-on kit. Unit 22 NC. AU9010.

Electrical engineering

Three phase systems. Unit 63 HNC. LK4961.

Intermediate electrical and electronic principles. Unit 5, 101 HNC. LK9862.

Industrial sensors, actuators and control. Unit 25 NC. LK5783.

Electronic engineering

Advanced electronic principles. Unit 39 HNC. LK6804.

Adv. electrical/electronic & digital principles. Unit 66 HNC. LK9044.

Programming PICmicro microcontrollers with C. Unit 57 HNC. HP4832.

Programming PICmicro MCUs with Assembly. Unit 57 HNC. HP4832.

Audio DSP course. EB650.

USB training course. EB479.

CAN bus training course. EB237.

Bluetooth training course. EB860.

Mobile phone training course. EB118.

Embedded internet training course. EB643.

RFID training course. EB699.

Zigbee course.EB284.

FPGA course. EB940.

Operational amplifiers add-on pack. Various. LK6906.

Combinational logic add-on pack. Various. LK6904.

Sequential logic add-on pack. Various. LK6905.

Transistor amplifier add-on pack. Various. LK9435.

Principles and applications of electronic devices and circuits. Unit 35 NC. LK9422.

Programming PICmicro microcontrollers with flow charts. Unit 59NC, 22 HNC. HP4832.

Programming Arduino microcontrollers with flow charts. Unit 59 NC, + unit 22 HNC. HP7745.

Basic engineering - BTEC First

Applied electrical science. Unit 4 F. LK9071.

Electronic devices and communication applications. Unit 7 F. LK3889.

Fault finding in electronic circuits. Unit 13 F, 60 NC. LK3566.

Automatics interactive courseware. Unit 24 F, AW20780.

Automatics essentials solution. Unit 24 HNC, AU9020.

On these two pages you can see a map of the solutions we offer for delivering practical work. These are all mapped to internationally renowned syllabuses from BTEC, City and Guilds and the IMI and the UK's academic levels of achievement.

To understand the academic level system you can use the diagram on the left published by the UK Office of Qualifications.

F = BTEC First
NC = BTEC National Certificate
HNC = BTEC Higher National Certificate