

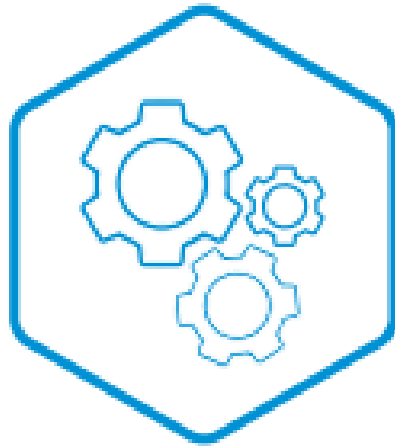
FURTHER ED

Built Environment
and Engineering


Barnet
Southgate
College
HeadStart

**Welcome to the Engineering
Department**
FOLLOW US ON @bsc_engineering





Altogether,
203,000 people
with Level 3+ engineering
skills will be needed every
year to meet demand
through to 2024

Engineering UK Synopsis and recommendations

https://www.engineeringuk.com/media/1576/7444_enguk18_synopsis_standalone_aw.pdf

Courses - 2020/2021

- ▶ Level 2 Extended Certificate in Engineering
- ▶ Level 3 National Foundation Diploma in Engineering (Yr.1)
- ▶ Level 3 Extended Diploma in Engineering (Yr.2)

punctuation
adjective
English
noun verb

English and Maths, essential skills in Engineering



*“How do we make
a 300 tonne
aircraft fly
through the sky?”*



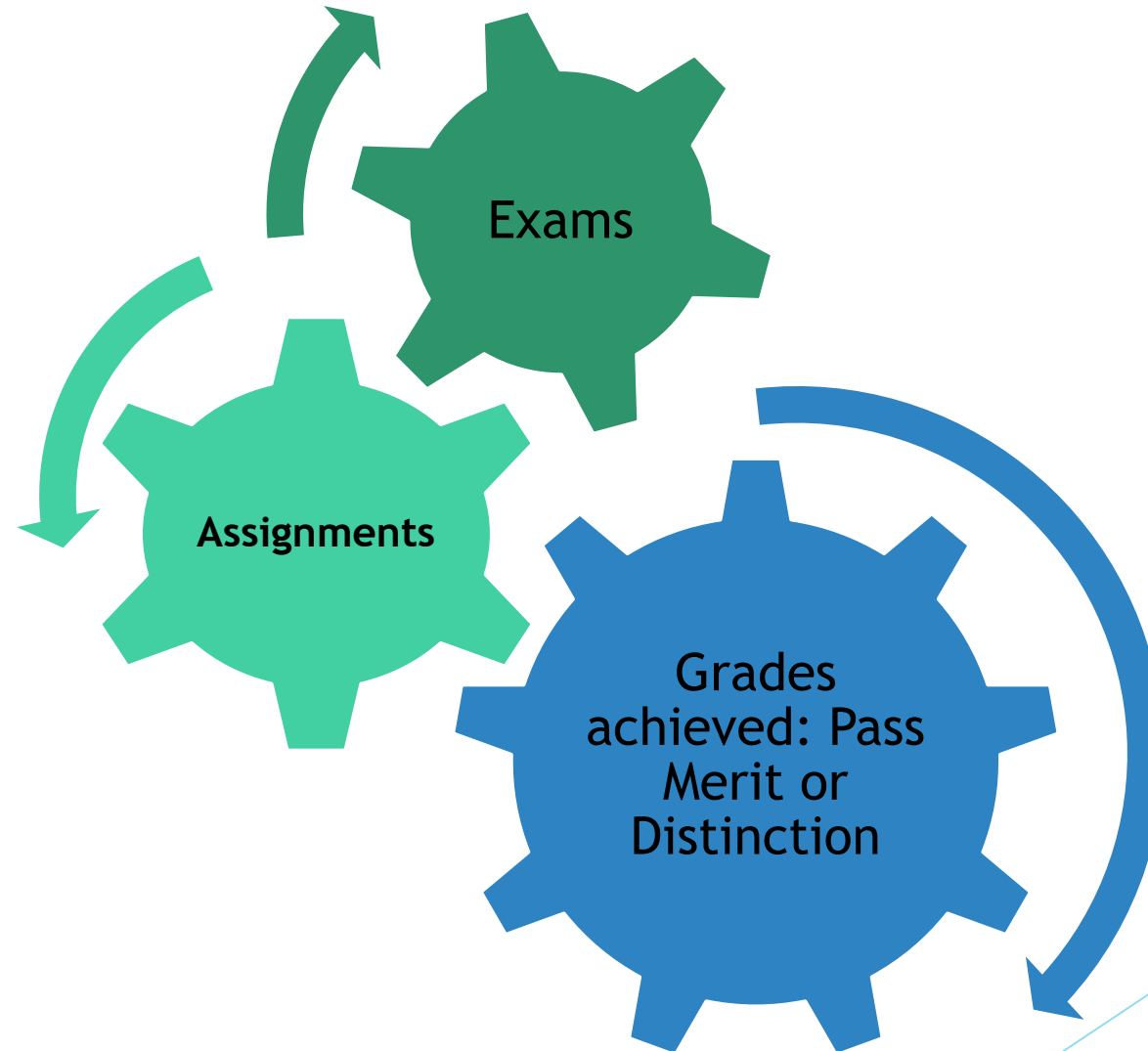


BTEC Engineering Courses 20-21

All BTEC programmes are designed to equip individuals with practical workforce skills and knowledge needed to work within the Engineering Industry.

- **Level 2 qualifications are ideal for students who have not achieved the required grades for English and Maths (minimum Grade 4). This route offers them the opportunity to gain underpinning knowledge and skills within the Engineering industry which will allow them to progress onto Level 3.**
- **Level 3 BTEC Engineering qualifications are ideal for students seeking to progress to University, Apprenticeship, or Employment. This course is ideal for creative thinkers with aptitude for engineering and good at solving problems and applying Mathematics.**

BTEC Engineering Assessment Process



Head start your learning journey here!

Engineering topics for Head Start Tasks

Level 2 Head Start Activity

All products we use today are manufactured to satisfy the performance requirements for the customer. For example, a product might be required to go fast, perform under water or work in extreme temperatures.

Consider the F1 cars that Formula 1 drivers use in , and compare to an average family car.

Submit a poster after your research.

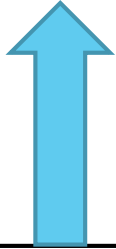
Head-start activity for BTEC L3

Task : The speed, v in m/s, of a train leaving a station can be modelled by the equation:

- ▶ $= 4vt$, where "t" is time in seconds.
- ▶ (a) Sketch a graph of this information for $0 \leq t \leq 100$.
- ▶ (b) The train has stopped at a railway station.
- ▶ (i) Find the time taken for the train to travel 1200m after leaving the station.
- ▶ (ii) Calculate the acceleration at the time when the train has travelled 1200m from the station.
- ▶ Complete the task and submit on the day of interview

Progression from L2 in Engineering

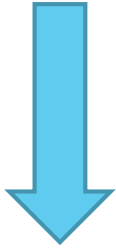
Entry level of employment



BTEC L2 in Extended Certificate in Engineering

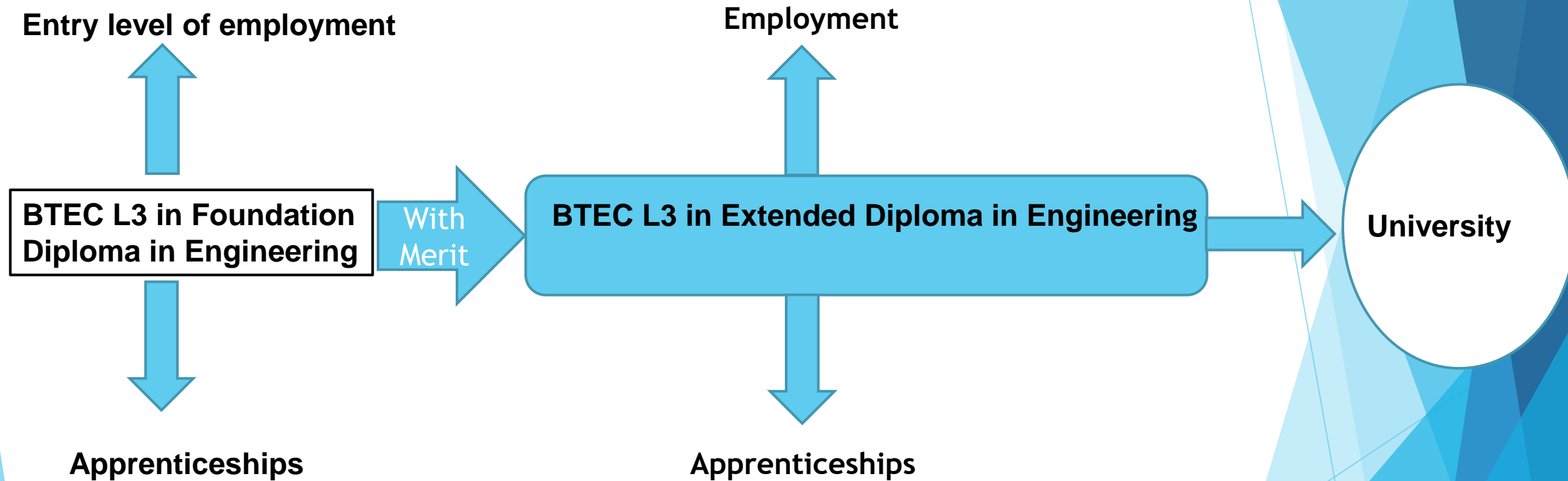
With
Merit

BTEC L3 in Engineering



Apprenticeships

Progression from L3 Engineering



Course Expectations leading to key workforce skills

- ▶ Attendance and Punctuality (Time Keeping Skills)
- ▶ Positive and motivated attitude (Interpersonal Skills)
- ▶ Meeting assignment deadlines (Organisational Skills)

Your learning journey starts here with us!

[Apply online](#)

