

Awarding Body: Edexcel

## VENUE AND DURATION OF COURSE:

East Surrey College, Gatton Point, Redhill, RH1 2JX, 2 years Full-time.

## ENTRY REQUIREMENTS:

5 GCSE grade A\*-C (9-4) including English, Maths & Science with a satisfactory interview. A technical background would be useful but not essential. Suitable prior knowledge and skills will be taken into account at interview.

## WHAT QUALIFICATIONS WILL I GET?

- Year 1 – BTEC Level 3 Certificate in Advanced Manufacturing Engineering
- Year 2 – BTEC Level 3 Extended Diploma in Advance Manufacturing Engineering

## COURSE DESCRIPTION:

This qualification is designed to meet the needs of those preparing to pursue a career within the Aviation industry. It offers routes into further study (Higher Education) and a range of employment opportunities at Engineering Technician level. The programme focuses on key aero/mechanical principles involved in these industries, providing the candidate with a broad base from which they may further their career.

## UNITS/TOPICS COVERED:

### Core Units:

- Communication for Technicians
- Health and Safety at Engineering Workplaces
- Mathematics for Technicians

### Additional Units:

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| <ul style="list-style-type: none"> <li>• Engineering Project</li> <li>• Further Mathematics for Technicians</li> <li>• Mechanical Principles of Engineering Systems</li> <li>• Human Factor in Aircraft Engineering</li> <li>• Further Mechanical Principles of Engineering Systems</li> <li>• Engineering Drawing for Technicians</li> <li>• Aircraft Gas Turbine Engines</li> <li>• Electrical &amp; Electronic Principles</li> </ul> | <ul style="list-style-type: none"> <li>• Aircraft Flight Principles and Practices</li> <li>• Application of Mechanical Systems in Engineering</li> <li>• Aircraft Radio and Radar Repair</li> <li>• Airframe Construction and Repair</li> <li>• Airframe Mechanical Systems</li> <li>• Electro, Pneumatic and Hydraulic systems and Devices</li> <li>• Engineering Design</li> </ul> |
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## TYPE OF ASSESSMENT:

The course will be internally assessed through a programme of assignments, projects, case studies & practical coursework.



**EQUIPMENT NEEDED:**

All students will be required to wear College uniform. Steel toe capped boots must be worn at all time when in the workshops. Students will also need to bring in stationery equipment such as pens, pencils, calculator, lever arch folder and recommended textbooks.

**WHERE CAN IT LEAD?**

A successful student with a Merit grade or above in at least five subjects may have the opportunity to study a higher engineering course at this College or at university (see individual course entries for desired universities). This may be a degree or HND programme.

**COURSE FEE:**

If you are under 19 on 31/08/2023, tuition is free. If you are 19 or over, please consult Client Services for advice and guidance on funding and eligibility.

Please be aware that there may be additional costs for equipment and educational visits. This information will be available from the curriculum staff at interview.

**WHAT TO DO NEXT:**

If you have any outstanding queries please contact our Client Services team on 01737 788444 or at [clientservices@esc.ac.uk](mailto:clientservices@esc.ac.uk).

To apply online for this course please visit [www.esc.ac.uk](http://www.esc.ac.uk).

**Disclaimer:**

Every effort has been made to ensure that the details contained in this leaflet are up-to-date and accurate at the time of printing. However, the College reserves the right to alter or cancel courses, their content, entry requirements, fees or other details should circumstances dictate.

Should you require this leaflet in a different format please contact Client Services on 01737 788444.

