



## Aircraft Maintenance Diploma Level 2

Aviation is at the forefront of technology and is currently suffering a shortage of skilled people. Aircraft can range from simple single seat microlights to large wide bodied airliners with up to a thousand passengers, with helicopters and fast jets in between.

Do you want to know more about how the Red Arrows operate or how the SR71 Blackbird travels at more than two thousand miles an hour, then perhaps this is the subject for you. But although it may be glamorous and exciting, without dedicated and professional engineers behind the scenes working in a fast moving and sometimes stressful environment, we would all be confined to the ground.

Whether you are interested in flying or engineering, either in the civil industry or the military then Cornwall College can set you on the path. With courses starting at Level 2 right up to level 4 which are all recognised in the sector, it is up to you how far you go. Perhaps leading to an EASA maintenance licence, which is recognised around the world or a degree in Aeronautical Engineering, the sky literally is the limit.

With staff from both the flying and maintenance worlds we have all the bases covered. Using our dedicated facilities and Mk3a Jet Provost aircraft at Newquay airport we work closely with our neighbours, giving us arguably some of the best resources available in any college running these courses.

Aerospace is perhaps the most challenging engineering discipline; covering aspects of all the others and there are many transferable skills. Whether it is working on a busy flight line as ground crew preparing the aircraft for flight or carrying out major repairs or scheduled maintenance this can be a very rewarding career.

### Key facts

**Course title:**  
Aircraft Maintenance  
Diploma Level 2

**Location:**  
Cornwall College Camborne

**Start date:**  
September 2019

**Course length:**  
1 year

### □ Ideal if

You are interested in flying or engineering, either in the civil industry or the military.

### □ You'll need

Three GCSEs at grade 4 or above, including English, mathematics and science.

To find out more call 0845 22 32 567 or  
email [enquiries@cornwall.ac.uk](mailto:enquiries@cornwall.ac.uk)



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## □ You'll learn

The theory of flight to material testing and practical sessions in riveting and sheet metal repairs, we cover all of the systems an aircraft needs to fly safely as well as how the aircraft are maintained.

With safety always at the top of the agenda we study human performance and the mountain of legislation required to meet the requirements of the various aviation authorities.

Just a few of the subjects we cover are:

- Health and safety and Flight safety
- Fluid dynamics
- Electrics and electronics
- Material science
- Propulsion, both piston engines and jets. Even a little about rockets
- Instrumentation and control systems
- The Theory of Flight (both fixed wing and rotary)
- Escape systems
- Fire and Ice detection
- Cabin pressurisation
- Ejection seats
- Airframe repairs
- Legislation, documentation, logistics and quality
- Human Factors and limitations
- Maintenance practices and method
- Aircraft handling, marshalling and re-fuelling

## □ Expect

To be assessed through a series of tests throughout the course.

## □ You'll love

Gaining industry experience through amazing field trips and studying with the only provider of aeronautical courses in Devon and Cornwall.

## □ You'll go on to

The Aeronautical Engineering Diploma Level 3 or a Level 3 apprenticeship.

### **Careers in the industry:**

- Mechanical engineer
- Aircraft mechanic
- Aircraft technician
- Licensed aircraft engineer
- Aircraft handler
- Aircraft operations
- Avionics engineer
- Defence engineer
- Royal Air Force
- Royal Navy
- Army Air Corps

## Choose from these course options

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Aircraft Maintenance (Civil  
Aircraft) Level 2 City &  
Guilds Diploma

Cornwall College  
Camborne

September 2019

1 year

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