



Deeside College
Coleg Glannau Dyfrdwy

Deeside College

Centre for

Aerospace Training



Career paths:

Aerospace Engineering
Aircraft Manufacture
Aircraft Maintenance

Introduction

Deeside College Centre of Aerospace Training provides the training needs of employers both locally and nationally for Aircraft Manufacture and Aircraft Maintenance.

The Centre of Aerospace Training holds in partnership with Barry College EASA pt 147 Approval from the Civil Aviation Authority (CAA) for aircraft maintenance training, this enhances our extensive aerospace provision as the leading training provider for Airbus UK.

FdEng Aeronautical Engineering (Logistics)

A two year part-time University of Wales degree, awarded by Glyndŵr University/Prifysgol Glyndŵr, in partnership with Deeside College. This course is designed to allow credit for work based learning:

- Mathematics for Engineers
- Engineering Science
- Engineering Materials
- Aircraft Systems
- Maintenance Principles
- Business management
- Engineering Management
- Aviation Legislation and Human Factors
- Aircraft Structures
- Electrical/Electronic/Digital Principles
- Project

And in addition either:

Option A: Avionic Systems or

Option B: Gas Turbine Engines + Gas Turbine Science

FdEng Aeronautical Engineering (Manufacture)

A two year part-time University of Wales degree, awarded by Glyndŵr University/Prifysgol Glyndŵr, in partnership with Deeside College. This course is designed to allow credit for work based learning:

- Mathematics for Engineers
- Engineering Science
- Engineering Materials
- Aircraft Systems
- Manufacturing Technologies
- Business Management
- Mechanical Principles
- Aircraft Structural Technology
- Further Analytical Methods
- Quality Assurance
- CAD/CAM
- Engineering Design
- Work Based Learning includes: Engineering Management and an Engineering Project

EASA pt 66 Aircraft Maintenance License

Aircraft Maintenance License A, B1 or B2 course for certifying staff, the modules taken depend on the type of License followed:

- Maths
- Physics
- Electrical Fundamentals
- Electronic Fundamentals
- Digital Techniques
- Materials and Hardware
- Maintenance Practices
- Basic Aerodynamics
- Human Factors
- Aviation Legislation
- Aeroplane Aerodynamics, Structures and Systems

BTEC National Certificate in Aerospace Engineering

A one or two year technical certificate course at level 3 in Aerospace Engineering as part of a Modern Apprenticeship.

- Business Systems for Technicians
- Communications for Technicians
- Engineering Project
- Mathematics for Technicians
- Mechanical Principles and Applications
- Theory of Flight
- Metallic Aircraft Materials, Structures and Repair
- Non-Metallic Aircraft Materials, Manufacture and Repair
- Aircraft Workshop Principles and Practice
- Aircraft Hydraulic Systems
- Airframe Systems

City and Guilds 2661 Certificate in Aeronautical

A level 3 part-time three year course provides a firm background for the aviation industry, the course structure includes:

- Year 1 Basic Aerodynamics, Human Factors and Aircraft Structures
- Year 2 Aviation Maths and Science, Aircraft Manufacture and Aviation Legislation
- Year 3 Aircraft Electrical Fundamentals, Materials and Hardware and Aircraft Mechanical Systems

NVQ3 in Aircraft Maintenance

This two year course is specifically designed for those who are already employed within an aircraft maintenance environment to meet the standards of competence within the aviation industry.

Units:

- Statutory Regulations and Organisational Safety Requirements
- Engineering Drawing and Documents
- Working Efficiently and Effectively in Engineering
- Reinstating the Work Area
- Fault Diagnosis on Airframe, Mechanical Components and Systems
- Scheduled Maintenance of Aircraft Airframe and Mechanical Equipment
- Removing and replacing Components of Aircraft Hydraulic Systems
- Removing and Replacing Powerplant Components
- Carrying out Tests on Aircraft Hydraulic Systems
- Carrying out Tests on Aircraft Engines and Systems

NVQ3 in Aircraft Manufacturing

This work based learning course is studied over two years and is specifically for those already employed within the aircraft manufacturing industry.

Units:

- Statutory Regulations and Operational Safety Requirements
- Engineering Drawing and Documents
- Working Efficiently and Effectively
- Reinstating the Work Area
- Marking Out Aircraft Components
- Installing Aircraft Mechanical Fasteners
- Producing Aircraft Sub-Assemblies
- Drilling and Finishing Holes in Aircraft Structures

Facilities

The college has state of the art facilities to enhance the industry standard training provision these include a twin engine Cessna 340, Jet Provost Mk 4 and Jet Provost Mk 5, a fully functional Airbus A319 wing and a fully functional General Electric CF6-6 Turbo Fan engine as used on the A330 worth \$1 million donated by My Travel Aircraft Engineering. Learning is supported by the college VLE 'Moodle' network.

Industry Partnerships

Deeside College Centre for Aerospace Training works closely in partnership with many companies including delivering the largest apprenticeship scheme in Britain with Airbus UK. The college also delivers a variety of schemes from aircraft maintenance to aircraft manufacturing apprenticeships for Hawker Beechcraft, Thomas Cook / My Travel, Chevron and Magellan Aerospace which are tailored to meet the needs of the individual customer.

Need more information?



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A larger text format of this leaflet can be downloaded on our Publications page at www.deeside.ac.uk.

Alternatively, please telephone 01244 834511 or email: enquiries@deeside.ac.uk if you would like us to send you a copy. Mae'r daflen hon ar gael yn Gymraeg hefyd. I gael copi cysylltwch â Gwasanaethau Myfyrwyr (Ffôn: 01244 834511 neu e-bost: ymholiadau@deeside.ac.uk).

