

World market leader in Aircraft  
Maintenance Training



**Lufthansa Technik**  
Shannon

Aviation Training Academy



Bachelor of Science in  
Aircraft Maintenance  
Engineering





## Aircraft Maintenance Engineering and Licence Training Programme

Lufthansa Technik Shannon & Technological University of the Shannon (TUS) offer this 28 month full time QQI Level 7 accredited Bachelor of Science in Aircraft Maintenance Engineering programme.

Successful graduates of this programme will be awarded a QQI Level 7 Bachelor of Science in Aircraft Maintenance Engineering by TUS Midlands Midwest.

On successful completion of this programme, students will also meet the requirements to apply to the Irish Aviation Authority for an EASA Category A1 Aircraft Maintenance Licence.

They will also have completed 70% of the B1.1 aircraft maintenance licence modules and 58% of the B2 aircraft maintenance licence modules. <sup>Note 1.</sup>

This programme has been designed to provide trainee aircraft maintenance engineers with the best education and training for working within the global aviation maintenance industry.

<sup>Note 1</sup> The four remaining B1.1 modules and/or the five remaining B2 modules can be completed separately by enrolled students on this programme through night courses and self-study whilst attending their course in Shannon.

### Programme Structure

The programme is runs full-time over 28 months in the Lufthansa Technik Aviation Academy in Shannon and consists of three stages:

#### Stage 1 - EASA Modules

- Cat B1 Module 1 - Mathematics
- Cat B1 Module 2 - Physics
- Cat A Module 3 - Electrical Fundamentals
- Cat A Module 5 - Digital Techniques/Electronic Instrument Systems
- Cat B1 Module 6 - Materials and Hardware
- Cat B1 Module 7 - Maintenance Practices
- Cat B1 Module 8 - Basic Aerodynamics
- Cat B1 Module 9 - Human Factors
- Cat B1 Module 10 - Aviation Legislation
- Cat A Module 11 - Aeroplane Aerodynamics Structures and Systems
- Cat B1 Module 15 - Gas Turbine Engines
- Cat B1 Module 17 - Propeller

#### Stage 2

- Basic Metal Work
- Basic Sheet Metal Work
- ATA 20 M - Standard Maintenance Practices - Mechanical
- ATA 20 E - Standard Maintenance Practices - Electrical
- Aircraft Practical Training in the LTSL EASA Part 145 Maintenance Repair Organisation
- Fuel Tank Safety
- Manual Handling
- Inspection Techniques
- Company Procedures
- Fall Arrest
- ATA 104 Level 1 Airbus A320 Familiarisation course

#### Stage 3

- **Aircraft On the Job Experience in the LTSL EASA Part 145 Maintenance Repair Organisation**
- **EASA Part 145 Continuation Training**

The experience requirements for the EASA licence is met by the student aircraft maintenance engineer been integrated into a live aircraft maintenance environment within LTSL.

Here they will gain very valuable aircraft base maintenance experience across every area of the aircraft.

#### Career Options

Graduates from this programme can find employment as

- Licenced Aircraft Maintenance Engineers in aircraft base maintenance facilities.
- Licenced Aircraft Maintenance Engineers in airline line maintenance.
- Complete B1.1 and or the B2 licence .  
-increase certification privileges. Add a type course.
- Tech Services / Continued Airworthiness Management

#### Application Process

Applications for this programme are managed by Lufthansa Technik Shannon. Successful entrants onto the programme will be registered students of TUS Midlands Midwest.