Basic Aircraft Maintenance 1, 2 & 3

Aircraft operators and maintenance companies have identified an emerging need for additional qualified maintenance staff to meet future needs. Current demographics identify an ageing workforce and insufficient 'new starts'. It is therefore imperative that aircraft engineers are trained today to meet future demands of the airline industry.

The aim of this flexible modular course is to offer training to meet the theoretical knowledge requirements together with relevant practical experience to become eligible for the European Aviation Safety Agency (EASA) Part 66 Aircraft Maintenance Licence. This professional licence to practice confers upon its holder the privilege to certify the fitness for service of an aircraft. The course can be studied as a complete full-time programme lasting 24 weeks or as an individual module, with each module lasting from 5 days (1 week) upwards to 6 weeks. The modules for this programme are grouped into 3 parts lasting between 6 to 12 weeks.

Learning Outcomes

On successful completion of the full modular course, learners will have achieved the theoretical knowledge for basic aircraft maintenance. They will be able to:

- Use a combination of engineering knowledge and understanding to improve the application of existing and emerging maintenance technology.
- Apply appropriate theoretical methods to the analysis and solution of engineering problems.
- Provide technical and commercial leadership.
- Demonstrate effective interpersonal skills.
- Demonstrate a personal commitment to professional standards, recognising obligations to society, the profession and the environment.

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Course Structure

Part 1

1 Mathematics for Aircraft
2 Physics for Aircraft
3 Aircraft Electrical Fundamentals
4 Aircraft Electronic Fundamentals
5 Aircraft Digital Techniques

Part 2

6 Aircraft Materials and Hardware
7 Aircraft Maintenance Practices
8 Basic Aerodynamics
9 Human Factors
10 Aviation Legislation

Part 3

11 Aeroplane Aerodynamics, Structures and Systems
15 Gas Turbine Engines
17 Propellers

The course is also offered on a part time basis to suit applicants who are currently in employment either during evenings, week-ends or day release.

The course can also be offered in-house if required by the employer.

The course will run only on a full-time basis for international students.

Candidates will have to meet the full experience requirements, as stated in the EASA IR Part 66

This course is offered in collaboration with Air Service Training (UK). AST is approved and certified UKCAA Approval Number: UK.147.0002 and EASA Approval Number EASA.174.0174. This course is also MQA approved.