

Apprenticeship Training Programme

Phase 1: *With Employer*

Induction
Introduction to Health & Safety Training
Introduction to Tools & Equipment
Introduction to Basic Skills

Phase 2A: *Delivered in Training Centre (32 weeks)*

Course Content: (EASA Category A)

Induction
Mathematics
Physics
Electrical Fundamentals
Electronic Fundamentals
Digital Techniques
Materials & Hardware
Maintenance Practices
Basic Aerodynamics
Human Factors
Aviation Legislation
Turbine Aeroplane Aerodynamics, Structures & Systems
Piston Aeroplane Aerodynamics, Structures & Systems
Helicopter Aerodynamics, Structures & Systems
Gas Turbine Engine
Piston Engine
Propeller
Related Theory

Phase 3A: *With Employer*

Work Based Assessments with portfolio of evidence

Phase 2B: *Delivered in Training Centre (8 weeks)*

Course Content: (EASA Category B1/B2)

Mathematics
Physics
Materials & Hardware
Basic Aerodynamics
Human Factors

Phase 3B: *With Employer*

Work Based Assessments with portfolio of evidence

Phase 4: *Delivered in Educational College (35 weeks)*

Course Content: (EASA Category B1/B2)

Electrical Fundamentals
Electronic Fundamentals
Digital Techniques
Maintenance Practices
Aviation Legislation
Turbine Aeroplane Aerodynamics, Structures & Systems
Piston Aeroplane Aerodynamics, Structures & Systems
Helicopter Aerodynamics, Structures & Systems
Aircraft Aerodynamics, Structures and Systems
Propulsion
Gas Turbine Engine
Piston Engine
Propeller

Phase 5: *With Employer*

Work Based Assessments with portfolio of evidence

The overall duration of this apprenticeship is a minimum of 4 years provided all phases are successfully completed. On successful completion of the programme the learner is awarded an Advanced Certificate Craft (Level 6 on the National Framework of Qualifications).

For further information please contact your local Education & Training Board Training Centre or log onto www.SOLAS.ie

The Craft of Aircraft Mechanics



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Overview

Aircraft mechanics are employed throughout the aviation industry in a wide range of facilities designed to maintain light, rotary and large commercial aircraft. Aircraft mechanics inspect, maintain and repair airframe structures, engines, electronic and avionic systems.

Work activities

The work is diverse, disciplined and highly regulated, both nationally and internationally. The aviation industry uses advanced technology and new aircraft, which with their increasing reliance on computerised flight control and aircraft management systems, means that the use of electronic and computer equipment is an important aspect of an aircraft mechanic's skills.

Aircraft mechanics inspect, maintain and repair airframe structures, engines, electronic and avionic systems.

Personal qualities and Skills

You must be interested in aviation. Although you will work in a supporting role, you must be capable of organising your own work, without close supervision, but follow in detail set down procedures. As well as sound technical knowledge, you must have a strong sense of responsibility and the ability to work quickly and accurately. You must have physical fitness and be able to work well within a team.

Aspects of Work

- Understanding and using physics
- Learning how machines work
- Understanding technical drawings and diagrams
- Being interested in air transport or aircraft
- Learning and developing new craft-related skills, knowledge and competence
- Learning new practical skills
- Using mathematics to solve technical or scientific problems
- Being responsible for controlling or adjusting equipment
- Working with electricity or electronics
- Repairing items
- Practical skills and theoretical knowledge
- Understanding the scientific uses and properties of materials
- Keeping accurate records or reports
- Being well-organised and careful with practical tasks
- Taking responsibility for own learning, including the allocation of study time

Opportunities

Opportunities arise from time-to-time for promotion to supervisor level. Many persons use an apprenticeship as a first step in proceeding to such occupations as instructors, teachers, training advisers, managers and owners of businesses.

Where apprentices and crafts persons have the necessary ability, initiative and basic qualifications, opportunities are available for advancement. These include advanced technological and management courses which are available in Institutes of Technology, Schools of Management, Professional Institutes, etc.

Persons anxious to advance themselves in their careers are advised to discover for themselves what opportunities are available.

Educational Requirements

The minimum age at which the employment of an apprentice may commence is 16 years of age.

The minimum educational requirements are:

1. Grade D in five subjects in the Department of Education & Skills Junior Certificate Examination or an approved equivalent,
or
2. The successful completion of an approved Pre-Apprenticeship course
or
3. Three years' work experience gained over sixteen years of age in a relevant designated industrial activity as SOLAS shall deem acceptable.

You must obtain a job as an apprentice in your chosen occupation. Your employer must be approved to train apprentices and must register you as an apprentice within 2 weeks of recruitment.

In certain crafts, apprenticeship applicants are required to pass a colour vision test approved by SOLAS.