

AIRCRAFT STRUCTURE FITTER-ASSEMBLER (44)



RNCP CODE: 36086

JOB DESCRIPTION

Fitter-Assemblers assemble the metal and composite components that make up aircraft structures. Their work is carried out in accordance with precise instructions and in compliance with the technical documentation (production orders, drawings, work processes, etc.). They perform all the fitting, assembly and production control operations for which they are responsible.

MAIN TASKS

- Reading and interpreting technical documents: production orders, work processes, data sheets, etc.
- Assembling components: assembling metal and composite parts according to specifications.
- Carrying out fitting operations: adjusting, rectifying and positioning parts to ensure they are properly aligned
- Compliance control: checking the quality, correct operation and compliance of assemblies.
- Performing operations with tools and machines: drills, hand tools, inspection machines, etc.
- Ensuring compliance with safety and quality standards: following the procedures and regulations in force in the aeronautical industry.

TRAINING PROGRAMME

OBJECTIVES

The training course is intended to prepare trainees for the job of Aircraft Structure Fitter-Assembler. The course content is designed to give trainees the skills needed to become an aircraft airframe fitter, in order to validate the nine specialisations required for the French Professional Qualification in Metallurgy (CQPM) "Aircraft Structure Fitter-Assembler" - MQ 2000 04 31/440187R. For more information, please consult the *France Compétences* website (<https://www.francecompetences.fr>), specifying the French National Register of Professional Qualifications (RNCP) code corresponding to the course, which can be found in the downloadable programme available on the page devoted to training. This will provide you with detailed information about the certification.

At the end of the course, trainees will be able to:

- Check the supply of equipment, tools and components required for assembling mechanical parts.
- Adjust the span of an element on a structure according to one or more drawings.
- Attach and position the parts or sub-assemblies to be assembled.
- Carry out machining to remove material on a metal, composite and/or hybrid assembly.
- Produce an assembly by riveting and fitting fasteners and/or by adhesive bonding.
- Carry out finishing and electrical bonding operations.
- Apply interposition and/or sealant products.
- Remove a part from a mechanical assembly.
- Repair dents and scratches and/or carry out cosmetic repairs.

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TARGET AUDIENCE

This course is open to all types of profiles.

PREREQUISITES, enrolment conditions and deadlines

Candidates must be interested in manual trades in the aeronautical industry.

- French: Equivalent competence level "Elementary A2" (CEFR Global scale of common reference levels for skills).
- Mathematics: Equivalent level of competence to "Cycle 3" according to the French government gazette (*Bulletin Officiel*) of 26/11/2015.

The Recruitment and Training Department reserves the right to accept any application that does not fully meet these pre-requisites, based on a study of the application and the candidate's interview.

DURATION

- Theoretical and practical training: 435 hours of on-site training.
- Practical internship: according to the schedule.
- Dates: according to the training course schedule.

ORGANISATIONAL ARRANGEMENTS

- Continuous on-site training – Course divided into modules.
- Minimum number of trainees: 8 – Maximum number of trainees: 12.
- Site: 26 ter Zone, Bd de Cadréan, 44550 Montoir-de-Bretagne.

DISABLED ACCESS

For people with disabilities, tailor-made support can be provided to facilitate the training period. For any requests or information, please contact the Disability correspondent on the following number: +33 (0)6 21 67 66 25.

TEACHING RESOURCES/METHODS

A classroom equipped with a video projector has been assigned for the training course. Trainees are given a summary of the course content.

For practical work, an aircraft structure fitter-assembler workshop is made available.

Trainees are provided with all the tools and consumables needed to ensure that the course runs smoothly.

The training centre also has changing rooms for men/women/disabled persons.

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COURSE

CONTENT

Technical and vocational training

Drawing – Reading diagrams

Technical drawing
Reading of drawings
Sizing – Assembly

Metrology

Inspection and measuring instruments
Geometry verification

Regulations – Safety

Regulatory framework – Certified personnel
Maintenance organisations – Lean Manufacturing
– 5 S – REACH awareness – National and international requirements – Fod/FOD

Materials and Processes

Ferrous aeronautical materials
Non-ferrous aeronautical materials
Composite and non-metallic aeronautical materials
Corrosion
Interposition products such as sealants
Various products (paints, solvents, varnishes, etc.)
Machining and assembly processes for aircraft structures

Aeronautical technology

Aerodynamics – Flight theory
Aircraft structures and systems
Parts and accessories
Aeronautical fasteners

Quality

Best practices, following procedures, standards and traceability – Raising awareness about aircraft-structure quality

Practical work

Manufacturing sub-assemblies

Machining – Drilling – Fitting – Deburring – Countersinking
Forming – Bending
Sheet-metal work
Pinning – Unpinning
Riveting
Tightening torque
Locking screws on screwed-together assemblies
Assembly – Disassembly on airframes
Glueing/bonding
Electrical continuity
Repair techniques and procedures
Technical files for assembly, manufacture and maintenance
Fitting – Inspecting – Checking

Training on Work at height

Raising staff awareness about the risks posed by work at height (various structures, raised work platforms, scaffolding, roofs, pylons, terraces)
Providing information on the different types of equipment available and the rules on fall protection
Knowing how to use suitable PPE

Tests – Revision – Exercises – Mock oral exams

Practical exam for the French Vocational Diploma (CQPM)

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TRAINER BACKGROUND

Our trainers, who have significant experience in the aeronautical sector and are experts in the area covered by the course, will be responsible for designing, developing and delivering the technical modules.

COURSE ASSESSMENT AND SUPERVISION

The course is supervised by the Training Coordinator under the management of the Operations Manager at Derichebourg Aeronautics Training.

Continuous assessment of knowledge is carried out throughout the course via MCQs and practical simulations in workshops. Regular assessments are organised every 4 weeks, and the assessment tables can be sent to the parties responsible for funding the course. The trainees take the CQPM examination, involving an interview with a panel of professionals.

COURSE MONITORING SYSTEM

- Attendance sheet
- Course assessment by the trainees
- Training certificate