

# AIRCRAFT STRUCTURE FITTER-ASSEMBLER



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: drawings, 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 aerospace 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 9 specialisations required for the French Professional Qualification in Metallurgy (CQPM) "Aircraft Structure Fitter-Assembler" - MQ 2000 0187 R. 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 specific page devoted to the course. 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
- Location: 3 rue Jules Védrières, 31400 TOULOUSE or on the customer's site.

## 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 is provided for the duration of the training course. Trainees are given a summary of the course content.

For practical work, two fitting workshops with 61 workbenches are made available.

A warehouse area is set aside to provide shared tools and consumables in order to ensure that the course runs smoothly; each trainee is provided with an individual toolbox.

The training centre also has: changing rooms for men/women/disabled persons, a canteen, a rest room, a self-service resource room equipped with 5 computer stations connected to a printer, a photocopier and a telephone.

**Please note that there is a defibrillator in the training centre.**

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## COURSE CONTENT

### Technical and vocational training

#### Drawing – Reading plans

Technical drawing  
Reading 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 aerospace  
materials  
Corrosion  
Interposition products such as sealants  
Various products (paints, solvents, varnishes,  
etc.)  
Machining and assembly processes for aircraft  
structures

#### Aerospace 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 – Adjusting – Deburring –  
Countersinking  
Forming – Bending  
Boiler-making  
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, manufacturing  
and maintenance  
Fitting – Inspecting – Checking

#### 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 aerospace 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 of 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