
**Pilot Training**

# EC135 Transition Training Course

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| **Ground School** | **42 Hours (7 Days)** |
| **Sim** | **5 Hours per Student** |
| **Flight** | **2 Hours per Student** |

Rev. 2.1

AIRBUS

**SCOPE:**

This course will provide a complete Initial Pilot Ground School on the EC135 helicopter. Classroom instruction, combined with handouts, will provide complete information for a thorough understanding of the aircraft and its subsystems, with emphasis on Flight Manual usage including Normal, Emergency Procedures, and aircraft limitations for the EC135 series helicopters. A practical exercise will be conducted covering the Flight Manual and systems manual. Successful completion will be based upon this Exam covering overall course content..

**OBJECTIVE:**

To teach the student the fundamental knowledge of the aircraft necessary to conduct safe and efficient ground, pre-flight and flight procedures in the EC135. The student will be able to list the aircraft Limitations, describe the functions and operations of the aircraft's systems, use the Flight Manual to obtain necessary information for safe and efficient operation of the aircraft, and demonstrate a knowledge of the aircraft charts necessary for safe and efficient operations. Upon successful completion of this course, as evidenced by passing the EC135 Initial Pilot Ground School Final Exam, the student should be able to conduct operations, within the limits of the Flight Manual, safely and efficiently.

**COURSE PREREQUISITES:**

Acceptance into this course is based upon these requirements:

- A current FAA issued Helicopter Pilot Certificate
- Valid Medical Certificate

In special circumstances any of the above requirements may be waived with the approval of Airbus Helicopters, Inc.'s Chief Flight Instructor.

**NOTICES:**

Airbus Helicopters, Inc. reserves the right to notify customer of the occurrence of any force majeure condition that, in its sole discretion, is the cause of excusable delay. In the event of a force majeure condition, the services and/or classes will be extended or, if required, rescheduled for the first available opening. Airbus Helicopters, Inc. will not be liable for any costs, claims, or damages to customer or its employees arising from delays or interruptions caused by any force majeure condition.

The stated duration of the course is based on two student pilots per course. Additional student pilots may change the duration of the flight portion of the course. Airbus Helicopters Inc. instructor pilots fly a maximum of 4.5 hours per day.

## Ground School 42 hours

**Introduction and General Overview** 6.0 hours

SCOPE: This block of instruction will cover registration and orientation to the course, an explanation of the course outline, Airbus Training School Operations and a general overview of the helicopter. The general overview will include the main characteristics, description, main dimensions, airframe reference points, the engine, the main components and systems, the cockpit layout of the helicopter, including CPDS and associated VEMD, malfunctions, and the helicopter operating publications.

**Lifting System** 3.0 hours

SCOPE: This block of instruction will cover the functions of the main rotor drive system, the main gearbox and components and lubrication system to include the indicating system, air circulation, main gear box caution / warning lights, the rotor brake components and operation. The main rotor, the main rotor blades, the main rotor control assembly, the rotor speed monitoring and indicating system, the aural warnings and the main rotor and main transmission limitations.

**Fuselage** 2.0 hours

SCOPE: This block of instruction will cover the basic structure of the helicopter including the main cabin, the floor structure, aft structure, doors, windows, cowlings, and firewalls.

**Tail Unit** 3.0 hours

SCOPE: This block of instruction will cover the tail boom, tail rotor drive system, the tail rotor drive shaft, the tail gearbox, the tail rotor, and tail rotor control failure.

**Landing Gear** 1.0 hours

SCOPE: This block of instruction will cover the landing gear components and their functions, the mounting and characteristics the cross tubes and skids, to include discussion on low medium and high gear installations.

**Flight Control** 5.0 hours

SCOPE: This block of instruction will cover the cyclic and collective controls and the tail rotor flight controls, to include the hydraulic system and SAS systems and associated normal and emergencies procedures.

**Power Plant** 5.0 hours

SCOPE: This block of instruction will cover the aircraft fuel system components and operation, the Turbomeca or Prat & Whitney power plant, engine mounting, engine operation, fuel filters, and the fuel injection system, the engine power levers, the emergency fuel shut-off, the engine monitoring system, the engine lubrication system and oil cooling, the lubrication indicating system, and the engine compartment fire detection system.

**Electrical System** 2.0 hours

SCOPE: This block of instruction will cover the direct current power sources, power system components and their functions, layout of the power system components, power distribution, external power units, and the systems associated malfunctions and failures as well as caution / warning lights.

**FCDS** 4.5 hours

SCOPE: This block of instruction will cover introduction and overview of the Flight Control Display System, to include description of all components, normal pilot operations, emergencies, and pilot trouble shooting.

**AFCS** 6.0 hours

SCOPE: This block of instruction will consist of an Automatic Flight Control System overview, to include description of all components, normal pilot operations, emergencies, and pilot troubleshooting.

**Flight Manual** 4.5 hours

SCOPE: This block of instruction will cover the flight manual in depth including normal, emergencies, performance planning, weight and balance, and optional equipment.

**Final Exam and Course Critique** 2.0 hours

SCOPE: This block of instruction will include administering an open-book, multiple-choice Final Exam, with emphasis on use of the flight manual to obtain information, knowledge of basic aircraft systems, and the practical use of charts associated with the flight manual. A maximum time limit of one hour is permitted for administering the Final Exam. A critique will be conducted to discuss the exam questions, to answer any student questions, and to evaluate the course as well as the course presentation.

## Flight Training 7 Hours

**Flight** 2.0 Hours

**Simulator Flight** 5.0 Hours