



Technician Training

# EC130 B4/T2 Field Maintenance Refresher Training Course

5 Days / 1 Week  
Classroom 30 Hours  
Practical as requested

Approved By: Ross McMichael \_\_\_\_\_ Date: 01/06/2020

Instructor \_\_\_\_\_ Date \_\_\_/\_\_\_/\_\_\_

Rev. 2.2

**AIRBUS**



This course is comprised of a theoretical presentation and practical exercises when necessary to adequately review the basic aircraft systems and perform certain maintenance tasks described in Airbus maintenance documentation. Review of recent ASB/EASBs and modifications to the EC130 B4/T2 aircraft.

#### **ORGANIZATIONAL LEVEL:**

Complete maintenance checks and servicing, inspection for condition, and exchange of line replaceable units according to applicable documentation.

#### **INTERMEDIATE LEVEL:**

Repair on or off of the helicopter and extended periodical inspections according to applicable maintenance documentation. A maintenance facility, qualified personnel, test equipment, and special tools are required to perform these tasks.

#### **DEPOT LEVEL:**

Major repair or overhaul at the manufacturer or at an authorized service station according to special documentation. Tools / test equipment and specialized personnel trained in Depot level maintenance tasks.

#### **PREREQUISITES:**

- Currently Certified as an Airframe Maintenance Technician
- Two Years Minimum Experience as an Active Helicopter Maintenance Technician
- Completion of Airbus EC130 series Airframe Field Maintenance course

#### **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 following items shall serve as the training points for a typical EC130 series refresher course, focusing on field maintenance tasks as defined above. The course content shall be revised as necessary to reflect basic production helicopter configuration revision as subsequent aircraft are manufactured.

**Introduction** Classroom 0.5 hours

SCOPE: History of Airbus Helicopters. Introduction to the EC130 series helicopter.

**Publications** Classroom 1.0 hours

SCOPE: New O.R.I.O.N. publications, ATA 100 specifications as it applies to the EC130 series helicopters, construction, content, use, effectivity and revisions of the Keycopter publications.

**Overview/Structure** Classroom 1.5 hours

SCOPE: Description, construction, maintenance and inspection of the primary and secondary structure and landing gear.

**Power Transmission to Main Rotor** Classroom 3.0 hours

SCOPE: Description, construction, maintenance, troubleshooting and inspection of the gearbox, gearbox lubrication system, engine drive and rotor brake.

**Main Rotors** Classroom 1.0 hours

SCOPE: Description, construction, maintenance, inspection and troubleshooting of the main rotor shaft, head and blades including their new individual technology.

**Tail Rotor Gearbox System** Classroom 2.0 hours

SCOPE: Description, construction, maintenance, inspection and troubleshooting of the tail rotor drive shaft and tail rotor gearbox. Practical work consists of removal, inspection installation of tail rotor gearbox and its input seal, tail rotor yoke, teetering bearings, spider bearing, and pitch change links inspection.





### **Tail Rotor System**

Classroom 2.0 hours

SCOPE: Description, construction, maintenance, inspection of the tail rotor blades.

### **Electrical Power System**

Classroom 3.5 hours

SCOPE: Description, operation, maintenance and troubleshooting of the electrical system.

### **Tandem Servos and Dual Hydraulics**

Classroom 3.5 hours

SCOPE: Description, operation, maintenance, inspection and troubleshooting of the tandem servos and the dual hydraulic system. Practical work includes removal and reinstallation of the pumps, and the replacement of the gear box driven pump seals.

### **Rotor Controls (Flight)**

Classroom 2.0 hours

SCOPE: Description, construction, operation, maintenance and rigging of the flight controls.

### **Fuel System**

Classroom 2.0 hours

SCOPE: Description, operation, maintenance, inspection and troubleshooting of fuel system.

### **Instruments**

Classroom 1.0 hours

SCOPE: Location, description, operation, maintenance, inspection and troubleshooting of all instruments and their respective systems.



### **Lighting, Equipment and Furnishings**

Classroom 1.0 hours

SCOPE: Description, operation and troubleshooting of the lighting and fire detection systems.  
Description of furnishings available for the EC130.

### **Engine Installation**

Classroom 3.0 hours

SCOPE: Description, operation, maintenance and inspection of the engine/airframe interface.  
Airframe components of engine lubrication system and system operation.

### **Anti-Vibration Devices**

Classroom 1.0 hours

SCOPE: Description, operation, maintenance, inspection and troubleshooting of anti-vibration device and cabin resonators.

### **Review, Critique**

Classroom 1.5 hours

SCOPE: General review of material covered and student course critique.