



**Technician Training**

# **H125 / AS350B3 series Airframe Field Maintenance Training Course**

**10 Days / 2 Weeks**

**Classroom 40 Hours**

**Practical 20 Hours**

Approved By: Ross McMichael \_\_\_\_\_ Date: 01/06/2021

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

Rev. 2.2

**AIRBUS**



This course is comprised of a theoretical presentation and practical exercises necessary to adequately review the basic aircraft systems and perform certain maintenance tasks described in Airbus maintenance documentation. Following the successful completion of this course, the technician should be able to perform Organizational and Intermediate level maintenance tasks and procedures necessary to maintain the helicopter. This course does not include Depot level maintenance tasks and procedures as described below.

### **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

### **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 H125 / AS350B3 series maintenance training 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 1.0 Hours

SCOPE: History of Airbus helicopters. Introduction to the H125 / 350B3 series helicopter.

## **Publications**

Classroom 5.0 Hours

SCOPE: New O.R.I.O.N publications, ATA 100 specifications as it applies to the H125/350B3 series helicopters, construction, content, use, effectivity and revisions of the Keycopter publications.

## **Overview/Structure**

Classroom 6.0 Hours

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

## **Main Rotor Drive System**

Classroom 2.0 Hours, Practical 4.0 Hours

SCOPE: Description, construction, operation, maintenance, troubleshooting and inspection of the gearbox, gearbox lubrication system, engine drive and rotor brake. Practical work includes removal and installation of the gearbox modules, input seal, rotor brake and flexible suspension system.

## **Main Rotors**

Classroom 2.0 Hours, Practical 4.0 Hours

SCOPE: Description, construction, maintenance, inspection and troubleshooting of the main rotor shaft, practical work includes removal, disassembly and reinstallation of the components and swashplate assemblies.

## **Main Rotor Head**

Classroom 2.0 Hours, Practical 4.0 Hours

SCOPE: Description, construction, maintenance, inspection removal and installation starflex, spring vibration absorber and blades including their new individual technology





## **Exam Number 1**

SCOPE: Students will be given a 50 question multiple choice closed book exam. The exam will question the students on information covered in the subjects preceding this exam.

### **Tail Rotor Transmission System**

Classroom 1.5 Hours, Practical 1.5 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 link inspection

### **Tail Rotor System**

Classroom 1.5 Hours, Practical 1.5 Hours

SCOPE: Description, construction, maintenance, inspection of the tail rotor blades. Practical work includes removal/inspection and reinstallation of the laminated half bearings, and rotor blades.

### **Electrical Power System**

Classroom 3.0 Hours

SCOPE: Description, operation, maintenance and troubleshooting of the electrical system including the post-mod multibloc electrical system

### **Servo Controls and Hydraulic System**

Classroom 1.5 Hours,

SCOPE: Description, operation, maintenance, inspection and troubleshooting of the servos and hydraulic system. Practical work includes removal and reinstallation of a hydraulic pump, bearing, belt and actuators.

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

Classroom 1.5 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 1.0 Hours, Practical 3.5 Hour

SCOPE: Description, construction, operation, maintenance and rigging of the flight controls. Practical work includes rigging the aircraft flight controls and tail rotor controls.



## **Fuel System**

Classroom 1.5 Hours

SCOPE: Description, operation, maintenance, inspection and troubleshooting of fuel system including the post-mod crash resistant fuel system.

## **Instruments**

Classroom 2.5 Hours

SCOPE: Location, description and function of instruments and their respective systems

## **Lighting, Equipment and Furnishings**

Classroom 3.0 Hours

SCOPE: Description, operation and function of the lighting systems. Description of the furnishings available for the AS350B3 series.

## **Engine and VEMD**

Classroom 5.0 Hours, (VEMD) Practical 1.5 Hours

SCOPE: Description, engine operating controls, starting system, twist grip, fuel metering, engine back-up control ancillary unit collective pitch and yaw anticipator operation and rigging. Trouble shooting techniques of engine failure codes. Engine removal and VEMD system operation and fire detection system.

## **Exam Number 2**

SCOPE: Students will be given a 50 question multiple choice closed book exam. The exam will question the students on information covered in the subjects preceding this exam. An average between exams #1 and #2 of 75% or better is required to pass the class.