



Technician Training

EC120 Field Maintenance Initial Training Course

10 Days / 2 Weeks

Classroom 34 Hours

Practical 26 Hours

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 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
- In special cases these prerequisites can be waived by the Training Manager

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 EC120 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.

General Introduction

Classroom 2.0 hours

SCOPE: This block of instruction will cover registration and orientation to the course, an explanation of course outline and Airbus training school operations, company history and a tour of the facilities.

Introduction to EC120

Classroom 2.0 hours

SCOPE: This block of instruction will cover the main features, limitations and dimensions of the EC 120 this block of instruction will cover the main features, limitations and dimensions of the EC 120.

Publications

Classroom 5.0 hours

SCOPE: This block of instruction will cover an explanation of the ATA 100 system, EC 120 maintenance publications design, usage, and other related documentation.

Cockpit and Controls

Classroom 1.0 hours

SCOPE: This block of instruction will cover the description and operation of EC 120 cockpit controls and indicating components.

Servicing

Classroom 1.0 hours

SCOPE: This block of instruction will cover servicing operations such as ground handling, lifting, hoisting, levelling and weighing and weight and balance calculations.

Structure

Classroom 3.0 hours

SCOPE: This block of instruction will cover the description construction operation and maintenance of main and tail structure components and secondary components such as doors, windows, cowling and covers.



Landing Gear

Classroom 1.0 hours Practical 1.0 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 . Quiz covering the material.

Main Rotor Drive System

Classroom 1.0 hours Practical 4.0 hours

SCOPE: This block of instruction will cover the description, construction, operation and maintenance of the engine to main gearbox coupling assembly, gearbox suspension system, main gearbox, main gearbox lubrication and main rotor brake components.

Main Rotor

Classroom 1.0 hours Practical 4.0 hours

SCOPE: This block of instruction will cover the description, construction, operation and maintenance of the main rotor shaft, controls, blades, rotor head, anti- vibration devices and rotor speed sensing system.

Tail Rotor Drive

Classroom 1.0 hours Practical 3.0 hours

SCOPE: This block of instruction will cover the description operation, construction and maintenance of the tail rotor drive shaft and gearbox assembly, tail gearbox lubrication and indicating devices.

Tail Rotor

Classroom 1.0 hours Practical 1.0 hours

SCOPE: This block of instruction will cover the description operation, construction and maintenance of the tail rotor hub, blades and control mechanism.

Electrical System

Classroom 2.0 hours Practical 2.0 hours

SCOPE: This block of instruction will cover the description operation, maintenance and troubleshooting of the electrical generating system.

Flight Controls

Classroom 1.0 hours Practical 3.0 hours

SCOPE: This block of instruction will cover the description, operation and maintenance of main rotor and tail rotor flight controls.



Hydraulic System

Classroom 1.0 hours Practical 2.0 hours

SCOPE: This block of instruction will cover the description operation and maintenance of the hydraulic generating system and servocontrols.

Fuel System

Classroom 1.0 hours Practical 2.0 hours

SCOPE: This block of instruction will cover the description operation and maintenance of fuel system components.

Power Plant Installation

Classroom 1.0 hours Practical 1.0 hours

SCOPE: This block of instruction will cover the description, operation, maintenance and troubleshooting of the caution warning panel and vehicle engine multi-function unit.

Engine

Classroom 5.0 hours

SCOPE: This block of instruction will cover the description and operation of engine and engine airframe interface systems in order to maintain those systems.

Indicating and Recording System

Classroom 1.0 hours Practical 3.0 hours

SCOPE: This block of instruction will cover the description operation, construction and maintenance of the tail rotor drive shaft and gearbox assembly, tail gearbox lubrication and indicating devices.

Auxiliary Systems

Classroom 1.0 hours

SCOPE: This block of instruction will cover the description, operation and maintenance of lighting system, air conditioning, fire protection, equipment and furnishings, communications/Navigation and pitot static systems.

Optional Equipment

Classroom 0.5 hours

SCOPE: This block of instruction will cover the description, operation and maintenance of optional equipment not covered in prior blocks of instruction.

Final Examination

Classroom 1.5 hours

SCOPE: This block of instruction will cover the description operation, maintenance and troubleshooting of the electrical generating system.