



Technician Training

EC145 / BK117 C2 VARTOMS Field Maintenance Training Course

3 Days

Classroom 8 Hours

Practical 16 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 VARTOM 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 in relation to the Vartoms system. 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 EC145 / BK 117C2 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 Practical 2.0 hours

SCOPE: Block of instruction shall include general description and introduction of the Variable Rotor Speed and Torque Matching System (Vartoms) type I & type II for the BK117 C2 aircraft N2 engine control system. This includes the history of the Vartoms system and the basic overview of the system.

General

Classroom 1.0 hours Practical 1.0 hours

SCOPE: Block of instruction shall include the detailed description of the electrical and mechanical influences Vartoms has on the N2 system.

System Adjustments

Classroom 2.0 hours Practical 2.0 hours

SCOPE: Block of instruction shall include the general description of the maintenance procedures of the basic rigging of the Vartoms system using special tools and procedures according to the AMM.

Troubleshooting

Classroom 3.0 hours Practical 10.0 hours

SCOPE: Block of instruction shall include the troubleshooting procedures and supporting references to assist the technician in the repair and determination of common problems.

System Sensors and Inputs

Classroom 1.0 hours Practical 1.0 hours

SCOPE: Block of instruction shall include the description of the aircraft sensors that influence the Vartoms system and how those systems interact.