



**Pilot Training**

# **EC145 / BK117 C2 Maintenance Flight Training Course**

**4 Days**

**Ground School    12 Hours (2 Days)**

**Sim                    0 Hour**

**Flight                 4 Hours**



## **SCOPE:**

This course will provide a complete overview of Maintenance Flight Procedures on the EC145 helicopter. Classroom instruction, combined with Study materials will provide complete information for a thorough understanding of the aircraft flight manual, appropriate maintenance documents and a review of the relevant aircraft systems.

## **OBJECTIVE:**

To give the maintenance test pilot a thorough understanding of the requirements for evaluating aircraft function and performance after aircraft and/or engine maintenance actions.

## **COURSE PREREQUISITES:**

Acceptance into this course is based upon these requirements:

- A current FAA issued Helicopter Pilot Certificate
- Valid Medical Certificate
- Current Helicopter Experience
- Completion of EC145 (BK117 C2) Airbus Course in Previous 5 Years
- Minimum of 50 hours in an EC145C2 (BK117 C2) Helicopter
- Recommend background in aircraft maintenance or previous aircraft maintenance flight test experience

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** 12 hours

**Day 1**

**Introduction to AMM and MNSM** 4.0 hours

SCOPE: This block of instruction will familiarize the student with the EC145 Technical Publications as it pertains to the Maintenance Test Pilot. The areas covered are an introduction to the ATA 100 system and how it applies to the technical publications. An orientation to the EC145 maintenance work cards, Master Servicing Manual, Aircraft Maintenance Manual, Illustrated Parts Catalog, and Service Bulletins.

**VARTOMS Control** 2.0 hours

SCOPE: This block of instruction will cover the general makeup and function of the Variable Rotor Speed and Control System. This section includes overview of both the VARTOMS I and VARTOMS II system as required.

**Day 2**

**Advanced VARTOMS** 3.0 hours

SCOPE: This block of instruction will cover advanced topics of the VARTOMS control system to include operation, rotor speed control, torque matching, trim control, and troubleshooting techniques.

**Ground Check Run and Functional Check Flight Inspection** 2.0 hours

SCOPE: In-depth instruction covering the Ground Check Run and Functional Check Flight Inspection from the Master Servicing Manual section 05-60-00, 6-1. This overview is designed as a pre-brief for the flight portion of the course.

**Arriel 1E2 Cycle Counting** 1.0 hours

SCOPE: In-depth instruction covering the long method of calculating N1 and N2 cycles for the Turbomeca Arriel 1 engine.



## **Flight Training**

4 hours

### **Day 3 & 4**

#### **Flight 1**

2.0 hours

Check Run

Functional Check Flight

#### **Flight 2**

2.0 hours

Check Run

Functional Check Flight