



**Pilot Training**

# **H125 / AS350 B3e Maintenance Flight Procedure Course**

**3 Days**

**Ground School      10 Hours (2 Days)**

**Sim                      0 Hours**

**Flight                    2 Hours**

**SCOPE:**

This course will provide training for maintenance flight procedures on the H125 (AS350 B3e) helicopters equipped with Arriel 2D engines.

Classroom instruction will provide detailed information relating to the H125 (AS350 B3e) flight manual section 8.3 and applicable performance charts. Relevant aircraft systems, regulations, and airworthiness directives will be discussed. Preflight and post flight inspections will be performed and applicable paperwork completed.

Flight training includes approx. 2 hours of functional ground checks, hover checks, and flight checks.

**OBJECTIVE:**

To give the maintenance test pilot a thorough understanding of the requirements for evaluating aircraft 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 H125 or any AS350 B3 variant courses with a minimum of 50 flight hours in variant
- 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**

10 hours

### **Day 1**

#### **Maintenance Flight Procedures**

4.0 hours

SCOPE: This block of instruction will cover the required flight performance checks listed in section 8.3 of the Flight Manual. Along with the detailed explanation of the ground, hover, and flight checks, examples will be given and applicable aircraft systems will be reviewed and explained. The student will receive copies of the flight test sheets to prepare and use for the flight training.

NOTE: Registration, Orientation and introduction to the eManuals app on iPads is included in this time block.

#### **Airworthiness Directives**

0.2 hours

SCOPE: This block of instruction will cover the general AS350 B3e and Turbomeca ARRIEL 2D Airworthiness Directives that may apply to the Maintenance Test Pilot.

#### **Supplements & Performance Data**

0.3 hours

SCOPE: This block of instruction will cover the effect of a sand filter (SUPP 14) on engine performance. Engine Health Check Charts for aircraft equipped with sand filters will be explained and examples given. The effect on performance by other additional equipment will also be discussed.

#### **Regulations**

0.5 hours

SCOPE: This block of instruction will cover relevant FAA regulations concerning maintenance, airworthiness, inspections, record keeping, and intervals. This will guide the Maintenance Test Pilot in complying with FARs pertaining to maintenance test flights.

#### **Limitations**

1.0 hours

SCOPE: This block of instruction will cover a detailed review of the VEMD, with emphasis on the maintenance function.





## **Day 2**

### **Emergency Procedures Review**

0.5 hours

SCOPE: This block of instruction will cover preparation of the test sheets and a general flight briefing.

### **System Review**

0.5 hours

NOTE: One or more of the following chapters may be chosen for review.

#### **VEMD Review**

SCOPE: This block of instruction will cover a detailed review of the VEMD, with emphasis on the maintenance function.

#### **Oil Systems Review**

SCOPE: This block of instruction will cover a review of the main gear box and engine oil systems, with emphasis on the emergency procedures.

#### **Fuel System and Control Review**

SCOPE: This block of instruction will cover a review of the fuel system and engine fuel control with emphasis on the emergency procedures.

#### **Hydraulic Systems Review**

SCOPE: This block of instruction will cover a review of the servos and hydraulic system, with emphasis on the emergency procedures.

### **Flight Preparation & Brief**

1.0 hours

SCOPE: This block of instruction will cover preparation of the test sheets and a general flight briefing.

### **Preflight & Post Flight Inspection**

2.5 hours

SCOPE: This block of instruction will cover a detailed preflight inspection, including the aircraft preparation for the maintenance test flight. Upon termination of the flight, the aircraft will be re-inspected, the records evaluated, and logs filled out and signed off.



## **Flight Training**

2.0 hours

### **Day 3**

#### **Flight Prep & Ground Runs**

0.8 hours

SCOPE: This block of instruction will cover the required pre-start checks in accordance with section 4 and SHEET 1 of section 8.3 of the Flight Manual. The VEMD will be configured for the test flight and performance data checked and entered. A ground run will be performed according to SHEET 2 of section 8.3 of the Flight Manual.

#### **Flight & Shut Down Checks**

1.2 hours

SCOPE: This block of instruction will cover the flight checks in accordance with SHEETS 4-7 of section 8.3 of the Flight Manual. An engine shut-down will be performed in accordance with section 4 and SHEET 2 of section 8.3 of the Flight Manual.