



# Part 147 CAA Seminar Presentation

HELICOPTERS

PRESENTED ON BEHALF OF AIRBUS HELICOPTERS UK

**AIRBUS**



**THE CHALLENGE IS  
TO MEET THE  
PRESENT & FUTURE  
PART 147 TRAINING NEEDS  
WITHIN A CONSTANTLY  
EXPANDING & DEVELOPING  
HELICOPTER  
INDUSTRY**

## **There are specific challenges to technician training within Airbus Helicopters UK.**

1. Development of training for new type helicopters.
2. Specific training needs towards newly developed software within helicopter on-board systems (Integrated modular Avionics. I.M.A)

## Development of training for new type helicopters

Airbus Helicopters have seen two new type aircraft introduced over the last three years.

### **EC135-T3H & EC135-P3H**



In the addition a new type expected during 2020  
with the H160.



Along with this Airbus will introduce a new variant to the MBB-BK117 during 2020

## **The MBB-BK117-D3**



HELICOPTERS

TC Holder	Model	Com. des.	Part-66 Type rating endorsement
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>MBB-BK117 A- 1</b>		<b>Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>MBB-BK117 A- 3</b>		<b>Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>MBB-BK117 A- 4</b>		<b>Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>MBB-BK117 B- 1</b>		<b>Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>MBB-BK117 B- 2</b>		<b>Eurocopter MBB-BK 117 A/B (Honeywell LTS 101)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>MBB-BK117 C- 1</b>		<b>Eurocopter MBB-BK 117 C1 (Turbomeca Arriel 1)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>MBB-BK117 C- 2</b>	<b>EC145</b>	<b>Eurocopter MBB-BK 117 C2 (Turbomeca Arriel 1)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>MBB-BK117 C-2e</b>	<b>EC145</b>	<b>Eurocopter MBB-BK 117 C2 (Turbomeca Arriel 1)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>MBB-BK117 D- 2</b>	<b>EC145 T2</b>	<b>Eurocopter MBB-BK 117 D2 (Turbomeca Arriel 2)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>MBB-BK117 D-2m</b>	<b>H145</b>	<b>Eurocopter MBB-BK 117 D2 (Turbomeca Arriel 2)</b>



HELICOPTERS

TC Holder	Model	Com. des.	Part-66 Type rating endorsement
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 P1 (CDS)</b>		<b>Eurocopter EC 135 (PWC PW206)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 P1 (CPDS)</b>		<b>Eurocopter EC 135 (PWC PW206)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 P2 (CPDS)</b>		<b>Eurocopter EC 135 (PWC PW206)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 P2+</b>		<b>Eurocopter EC 135 (PWC PW206)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 P3 (CPDS)</b>		<b>Eurocopter EC 135 (PWC PW206)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 T2+</b>		<b>Eurocopter EC 135 (Turbomeca Arrius 2B)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 T1 (CDS)</b>		<b>Eurocopter EC 135 (Turbomeca Arrius 2B)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 T1 (CPDS)</b>		<b>Eurocopter EC 135 (Turbomeca Arrius 2B)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 T2 (CPDS)</b>		<b>Eurocopter EC 135 (Turbomeca Arrius 2B)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 T3 (CPDS)</b>		<b>Eurocopter EC 135 (Turbomeca Arrius 2B)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 P3H</b>		<b>Airbus Helicopters EC 135 P3H (PWC PW206)</b>
AIRBUS HELICOPTERS DEUTSCHLAND GmbH	<b>EC135 T3H</b>		<b>Airbus Helicopters EC 135 T3H (Turbomeca Arrius 2B)</b>



## Approach to additional Training needs

Advancements to cockpit digital display systems and Integrated Modular Avionics systems is one of the major additions which contributes to the differing Variants or Types.



The introduction and continued development of Integrated Modular Avionics (I.M.A) has created several challenges to training:

- Extending the duration of courses.
- Additional costs.
- Development and Inclusion of synthetic training aids.
- Changes to training facilities to accommodate additional training aids.
- Additional training for instructors.

**Software changes to I.M.A systems and the inclusion of specialist synthetic training aids causes challenges to small training organisations and therefore this places higher demand on manufacture delivered courses**

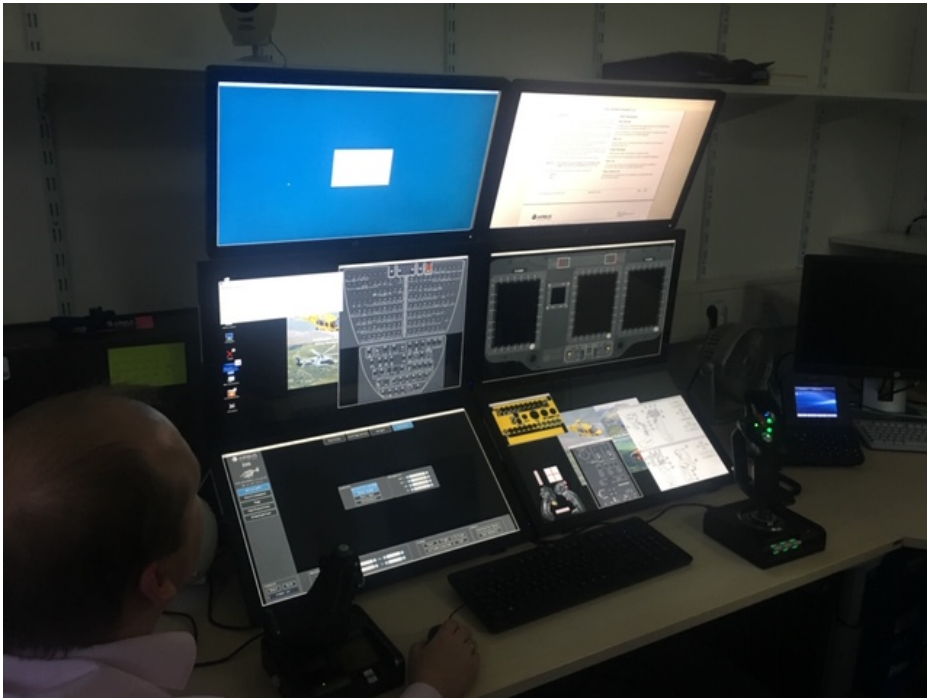


## **MEETING THIS GROWING EVOLUTION OF DIFFERENT VARIANTS REQUIRE:**

- **Specific Training Material to be developed.**
- **Revisions to Training Material.**
- **Additional Practical Training Needs.**
- **Update Training and Qualifying Instructors**
- **Standardisation of Instructors**
- **Changes to Instructional Techniques & Training Aids**

## Challenges with Practical Training are:

- Obtaining additional training aids
- Use of aircraft during training



**Both are partially challenging with new Type Aircraft training**

- 
- Thank you