



# From JOEB to OSC

OSC Workshop

Cologne, 3 March 2009



European Aviation Safety Agency

# From JOEB to OSC-

## Content of the presentation

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- **Background**
- **Differences between JOEB and OSC**
- **What is known and what is new**



# BACKGROUND

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## ➤ TODAY:

- ★ **Joint Operations Evaluation Board (JOEB)** is still under JAA umbrella managed by EASA Flight Standards Certification (JAAT-EASA Contract).
- ★ JOEB process enables NAAs to approve the minimum syllabus of pilot type rating training and cabin crew type training, the master minimum equipment list, EFBs, EVS, HUD and other technology which may impact Operations  
→ **single assessment acceptable to all JAA MS.**
- ★ JOEB may also include FSTD qualification for new aircraft (Joint JAA STD Evaluation Team (JSET)).



# BACKGROUND

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## ➤ TODAY:

- ★ **Minimum** syllabus of maintenance certifying staff **type rating** is not required to be developed by the TC holder → maintenance syllabi are approved **locally** by the NAA or established by a Part-147 approved organisation.



# BACKGROUND

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## ➤ TRANSITION TO EASA:

★ **EASA extended Basic Regulation 216/2008 (Article 5) → additional specifications for a given type of aircraft and type of operation (JOEB output+), become mandatory for all aircraft referred to in Article 4(1)(a),(b),(c) of BR through a decision of the Agency:**

- Agency approval linked to the TC it complements.
- The conditions under which the Agency would issue such a decision shall be specified in Regulation 1702/2003 (Part 21).

★ **Maintain the current JOEB concept.**



## Differences between JOEB and OSC – **What is known** and new?

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- **JOEB sets recommendations while** OSC sets European standards for type training of crews and MMEL/MEL...  
**but...**
- OSC also sets European standard for type training for maintenance staff  
**...AND...**



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# Differences between JOEB and OSC – **What is known** and new?

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- **JOEB is voluntary** while OSC is mandatory;
- **OSC IS A MORE UNIFORM AND HARMONISED PROCESS**



# Differences between JOEB and OSC – **What is known** and new?

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- **Manufacturers, NAAs, launch customers or training organisations could, in principle, apply for a JOEB ... while ...**
  
- **UNDER THE OSC PROCESS ONLY THE TC HOLDER CAN APPLY FOR INITIAL OSC.**



# Differences between JOEB and OSC – **What is known** and new?

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- **Under the current process (JOEB), STC applicants/holders are not required to assess the effects on JOEB reports ...while...**
- **UNDER THE OSC PROCESS STC HOLDERS OR APPLICANTS WILL BE REQUIRED TO ASSESS THE EFFECTS ON OSC'S APPROVED ELEMENTS ... and ...**
- **Any legal entity could, in principle, apply for a change to JOEB and OSC**



# Differences between JOEB and OSC – **What is known** and new?

<b>JOEB elements</b>	<b>OSC elements (initial)</b>
<ul style="list-style-type: none"><li>➤ <b>Applicant proposed type rating/operation on more than one type or variant (pilots).</b></li><li>➤ <b>Applicant type rating training course (pilots).</b></li></ul>	<ul style="list-style-type: none"><li>➤ May provide for credits on training, checking and recent experience requirements for operations on more than type or variant (pilots).</li><li>➤ Minimum syllabus of pilot type rating training, including determination of type rating</li></ul>



# Differences between JOEB and OSC – **What is known** and new?

<b>JOEB elements</b>	<b>OSC elements (initial)</b>
	<ul style="list-style-type: none"><li>➤ Minimum syllabus of maintenance certifying staff type rating training, including determination of type rating</li></ul>



# Differences between JOEB and OSC – **What is known** and new?

<b>JOEB elements</b>	<b>OSC elements (initial)</b>
<ul style="list-style-type: none"><li>➤ <b>Applicant proposed MMEL (including (O) &amp; (M) procedures)</b></li> <li>➤ <b>Applicant proposed aircraft operational conformity checklist (equipment), if requested.</b></li></ul>	<ul style="list-style-type: none"><li>➤ <b>MMEL (excluding (O) &amp; (M) procedures).</b></li></ul>



# Differences between JOEB and OSC – **What is known** and new?

## JOEB elements

- Applicant proposed type operation on more than one type or variant (cabin crew), if applicable.
- Determination of type or variant for cabin crew.

## OSC elements

- Determination of type or variant for cabin crew and type specific data for cabin crew training.



# Differences between JOEB and OSC – **What is known** and new?

## JOEB elements

- Evaluation/assessment of STD used for pilot qualification (JSET), if applicable.

## OSC elements

- Aircraft reference data to support the qualification of associated simulator(s).



## Differences between JOEB and OSC – **What is known** and new?

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- **JOEB and OSC elements are to be used by operators and competent authorities approving the operators... but...**
- **JOEB reports implementation are voluntary WHILE OSC'S ELEMENTS ARE MANDATORY;**
- **OSC IS A MORE UNIFORM AND HARMONISED PROCESS**



# Differences between JOEB and OSC – **What is known** and new?

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- **JOEB and OSC are addressing operational suitability... but...**
- **JOEB assessment of the same elements is wider and it could even address compliance with equipment requirements or SOPs evaluation... while...;**
- **THE ASSESSMENT AND APPROVAL PERFORMED UNDER THE OSC PROCESS IS MAINLY LIMITED TO THE ELEMENTS FORESEEN IN THE BASIC REGULATION.**



# Differences between JOEB and OSC – **What is known** and new?

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- **JOEB and OSC assess pilot's type rating training... but...**
- **JOEB evaluates type rating training course for pilots while;**
- **THE OSC PROCESS WILL APPROVE A MINIMUM SYLLABUS OF PILOT TYPE RATING TRAINING (LIST OF ELEMENTS TO BE TRAINED, AREAS OF EMPHASIS AND STANDARD DURATION).**



# Differences between JOEB and OSC – **What is known** and new?

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➤ **Some JOEB evaluations of cabin crew could include:**

- ✦ recommendation for operational approval of Conversion and Differences training syllabi and Checking for aeroplane types and variants

... **while** ...

➤ **OSC PROCESS WILL DETERMINE WHETHER THE AIRCRAFT IS A NEW TYPE OR A VARIANT AND ONLY TYPE SPECIFIC DATA FOR CABIN CREW TYPE TRAINING WILL BE APPROVED.**



# Differences between JOEB and OSC – **What is known** and new?

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➤ **JOEB evaluations could include JSET:**

- ★ Joint evaluation of STDs for new aeroplane and helicopter, STDs for new aircraft/engine/data package or new aircraft/STD manufacturer combinations

... **while** ...

- **OSC PROCESS WILL APPROVE AIRCRAFT REFERENCE DATA TO SUPPORT THE QUALIFICATION OF ASSOCIATED SIMULATOR. A VALIDATION DATA ROADMAP (VDR) DOCUMENT MAY ALSO BE PROVIDED.**



## Differences between JOEB and OSC – **What is known** and new?

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- **JOEB reports are not usually amended (it is not mandatory):**
  - ✦ Only in few cases the report has been amended based on in-service experience

**... while ...**
- **UNDER THE OSC, AN OCCURRENCE MONITORING PROCESS IS FORESEEN FOR (S)OSC HOLDER. TO ENSURE 'CONTINUED OPERATIONAL SUITABILITY'.**



## Differences between JOEB and OSC – **What is known** and new?

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- **Operators and organisations using JOEB reports are not required to report on deficiencies found on JOEB reports**  
... while ...
- **OPERATORS AND ORGANISATIONS SHALL REPORT ANY DEFICIENCY DETECTED ON OSC ELEMENTS**  
...AND..
- **(S)OSC HOLDERS, UNDER THE PROPOSED SYSTEM, SHALL ANALYSE THE RECEIVED REPORTS AS PART OF THEIR OCCURRENCE MONITORING PROGRAM. TO ENSURE 'CONTINUED OPERATIONAL SUITABILITY'.**



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## Differences between JOEB and OSC – **What is known** and new?

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- **Under the JAA, there is the 'OD' tool as a recommendation from JAA-LO to Member States to react to unsafe conditions for operations**  
... while ...
- **UNDER THE PROPOSED SYSTEM, THE AGENCY CAN ISSUE SAFETY DIRECTIVES (SD) TO REACT TO UNSAFE CONDITIONS FOR OPERATIONS.**



# Differences between JOEB and OSC – **What is known** and new?

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- Under the JOEB process, the evaluation/assessment was done against the applicable operational and licensing provisions (e.g. EU-OPS/JAR-OPS, JAR-FCL) and the Common Procedures Document → An Operational Review Item (ORI) is established ... while ...
- UNDER THE OSC PROCESS, COMPLIANCE IS SHOWN AGAINST THE APPLICABLE CERTIFICATION SPECIFICATIONS FOR OPERATIONAL SUITABILITY.



**THANK YOU FOR YOUR  
ATTENTION!**