EASA Operational Suitability Evaluations

Operational Suitability Data (OSD)

Capt. Herbert MEYER
Operational Suitability, Certification Directorate
30 October 2013

Your safety is our mission.
Operational Suitability Data (OSD)

"A new EASA invention to burden the industry?"

or

"A better way to integrate aircraft type specific elements for pilot licensing and operations!"
JAA JOEB*

PILOT QUALIFICATION:
aircraft type/variant designation
training/checking/currency

SIMULATOR QUALIFICATION:
evaluation of the first simulator

CABIN CREW:
acft type assessment, CC training, operation

MMEL DEVELOPMENT

OTHER:
EFB, HGS, Steep Approaches, etc.

* voluntary evaluation on request by applicant
EASA OEB*

PILOT QUALIFICATION:
aircraft type/variant designation, training/checking/currency

SIMULATOR QUALIFICATION:
evaluation of the first simulator

CABIN CREW:
acft type assessment, CC training, operation

MMEL DEVELOPMENT

OTHER:
EFB, HGS, Steep Approaches, etc.

* voluntary evaluation on request by applicant

1 Feb 2006
EASA OEB*

PILOT QUALIFICATION:
aircraft type/variant designation
training/checking/currency

SIMULATOR QUALIFICATION:
evaluation of the first simulator

CABIN CREW:
actf type assessment, CC training, operation

MMEL DEVELOPMENT

OTHER:
EFB, HGS, Steep Approaches, etc.

* voluntary evaluation on request by applicant

1 Jul 2009
EASA OEB*:

**PILOT QUALIFICATION:**
aircraft type/variant designation
training/checking/currency

**SIMULATOR QUALIFICATION:**
evaluation of the first simulator

**CABIN CREW:**
acft type assessment, CC training, operation

**MMEL DEVELOPMENT**

**OTHER:**
EFB, HGS, Steep Approaches, etc.

* voluntary evaluation on request

EASA OSD#:

**PILOT QUALIFICATION:**
aircraft type/variant designation
training/checking/currency

**SIMULATOR QUALIFICATION:**
acft validation source data

**CABIN CREW DATA:**
acft type/variant designation
type specific data

**MMEL DEVELOPMENT**

**OTHER**

**Maintenance Certifying Staff:**
type rating, minimum syllabus

# regulatory requirement

≈ Dec 2013 / Jan 2014
Certification ↔ OSD ↔ Operation

- Aircraft Certification
  - Part 21
  - CS-23, -25
  - ...

- OSD
  - Aircraft Type Specific Elements

- Flight Crew Licensing
  - Air Operations

- Manufacturers
  - Approved Training Organisations
  - Operators

- Operators
  - Part-FCL
  - Part-ARO, -NCC, -ORO, -CAT, -SPA
  - ...

30 Oct 2013
OSD Framework

- Regulation (EC) 216/2008 – "Basic Regulation" – was extended to include the elements of operational suitability evaluation

- Regulation (EU) 748/2012 – Annex I ["Part 21"] – will be amended to approve operational suitability data as part of the certification process (entry into force envisaged Dec 2013 / Jan 2014)
Flight Crew Operational Suitability Data (OSD) for all aircraft?

FC OSD for

- new aircraft, entering into service with an EU operator
- in-production aircraft, in service with an EU operator
- aircraft for which data from previous OEB evaluations exist
- aircraft modifications, when impact on flight crew data

*transition periods will be established*
What is the Status of Operational Suitability Data (OSD)?

"FC OSD contain mandatory and recommended elements"
What is the Status of Operational Suitability Data (OSD)?

- Required from Manufacturer
- Voluntary by Manufacturer

Aircraft TC holder

Type rating license endorsement
Training Areas of Special Emphasis (for initial type rating course)

ODR / MDR Tables
Training Areas of Special Emphasis (e.g. for differences training course)

Footprint – Initial type rating course (duration, devices, etc.)

Footprint – Differences course / reduced type rating course. Training for optional equipment, special procedures, etc.

Part-21 and applicable certification specifications

Regulation Aircrew
Regulation Air Operations

AMCs to Regulation Aircrew
AMCs to Regulation Air Operations

MANDATORY

RECOMMENDATION

End user: training organisation, operator
Operational Suitability Data (OSD)

What Data?

OSD establishes aircraft as separate types or variants

Part-FCL, FCL.010:

'Type of aircraft' means a categorisation of aircraft requiring a type rating as determined in the operational suitability data ...

ORO.FC.140 (a)

flight crew members operating more than one type or variant of aircraft shall comply with the requirements ... for each type or variant, unless credits related to the training, checking, and recent experience requirements are defined in the mandatory part of the operational suitability data ...
Operational Suitability Data (OSD)

What Data?

OSD establishes Training Areas of Special Emphasis (TASE)

Part-FCL, FCL.725(a):

➢ ... The type rating training course shall include the mandatory training elements for the relevant type as defined in the operational suitability data ... 

ORO.FC.145(b)

➢ When establishing the training programmes and syllabi, the operator shall include the relevant elements defined in the mandatory part of the operational suitability data ...
Operational Suitability Data (OSD)

What Data?

OSD establishes reduced flight training syllabus based on credit for previous experience on similar aircraft types

Part-FCL, Appendix 9 – CONTENT OF THE TRAINING, SKILL TEST/PROFICIENCY CHECK

... The syllabus may be reduced to give credit for previous experience on similar aircraft types, as determined in the operational suitability data ...
Operational Suitability Data (OSD)

What Data?

**OSD may reduce the number of landings required after training**

**AMC2 ORA.ATO.125 (k) – Flight Training**

1. For MPAs where the student pilot has more than 500 hours of MPA experience in aeroplanes of similar size and performance, these should include at least four landings of which at least one should be a full-stop landing, unless otherwise specified in the OSD... In all other cases the student should complete at least six landings...
Operational Suitability Data (OSD)

What Data?

OSD establishes credits for the operation on more than one type or variant

ORO.FC.140(a)

Flight crew members operating more than one type or variant of aircraft shall comply with the requirements ... for each type or variant, unless credits related to the training, checking, and recent experience requirements are defined in the ... operational suitability data ... for the relevant types or variants.
Operational Suitability Data (OSD)

What Data?

OSD establishes credits for the operation on more than one type or variant

Credits for
- training, checking and recent experience;
- minimum time and hours on base aircraft prior to training on another type or variant;
- number of flight hours or sectors required for crewing of inexperienced flight crew members;
- line checks;
- alternating proficiency checks;
OSD Flight Crew

- **OSD establishes data related to:**
  - Part-FCL experience requirements and prerequisites for the issue of class or type ratings;
  - For specific operations (e.g. steep approaches, ETOPS, etc.) additional flight training should be carried out based on available elements defined by the OSD;
  - Specific Approvals (Part-SPA) shall take into account the relevant elements defined in the OSD;
  - Change Part-FCL instruction requirements for theoretical knowledge and flight training courses for SP ME aeroplanes and SP aeroplanes-sea;
  - Progression to flight training phase prior to completion of theoretical knowledge examination;
  - Support reduction of 16 hours FFS time in combination with other qualified FSTD for training in MP aeroplanes;
  - Partial skill test based on credit for items common to other types or variants
  - Part-FCL validity period for class or type ratings;
  - Limitation of initial type rating privileges to flight under the supervision of an instructor;
  - Common Take-Off and Landing Credit (CTLC) for recent experience requirements;
  - For specific operations (e.g. steep approaches, ETOPS, etc.) additional flight training should be carried out based on available elements defined by the OSD;
  - Specific Approvals (Part-SPA) shall take into account the relevant elements defined in the OSD.
EASA FC operational reports available today

Challenger 300

Hawker 4000

Phenom 100/300

Jet Ready EA 500

CRJ 1000

HGS 4200

B757/767

A330

A380
EASA FC operational reports available today

G VI

Falcon 900 EX EASy II

Embraer E-Jets

G 650

ATR 600

B787

B747-8

Learjet 70/75

... and more