



EASA

European Aviation Safety Agency

Implementation of OSD-MCS (Maintenance Certifying Staff)

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Topics



OSD-MCS Applicability
(When?)

OSD-MCS Certification Basis
(How?)

OSD-MCS Content
(What?)



OSD-MCS applicability as per EU 69/2014 (Part 21 Amdt)

Obligations for a TCH to provide the OSD-MCS:

- [Art. 1 (3)7a1] **Only new TCs**, applications filed **after 17 February 2014**.
 - Limited to **Group 1** a/c. (*GM No. 1 to 21.A.15(d)*)
 - **OSD approval** to be obtained **before EIS** of the first a/c by an EU operator or need to use OSD for preparation of such EIS. (*GM to 21.A.21(f)*)
- [Art. 1 (3)7a2] **Catch-up** for existing TC or on-going certifications, for which the application was filed before 17 February 2014, is **voluntary**.
- [Art. 1 (3)7a3] No OEB-MCS approved report exists: therefore **no Grandfathering** activity is expected.
- [Art. 1 (3)7a4] DOA scope **extension** before 18 December 2015. If no OSD-MCS exists, no extension is required.
- [Art. 2] **Changes** and STCs are exempted until 19 Dec.2016. If no OSD-MCS exists, no application for OSD-MCS change is required.



OSD inclusion into TRT

Art. 6.3 of EU 1321/2014 (CAW Amdt)

Type training courses approved before the approval of the OSD-MCS shall include the relevant elements defined in the **mandatory part** of that OSD latest between:

- 18 December 2017 or
- **within two years** after the OSD approval.



Group 1 aircraft (66.A.5)

Aeroplanes

- above 5700 kg MTOM; or
- more than 19 pax; or
- minimum crew 2 pilots; or
- turbojet; or
- two or more turboprops; or
- Op. Alt. > FL290; or
- fly-by-wire.

Helicopters

- above 3175 kg MTOM; or
- more than 9 pax; or
- minimum crew 2 pilots; or
- more than one engine; or
- fly-by-wire.

Tilt rotor aircraft

- All



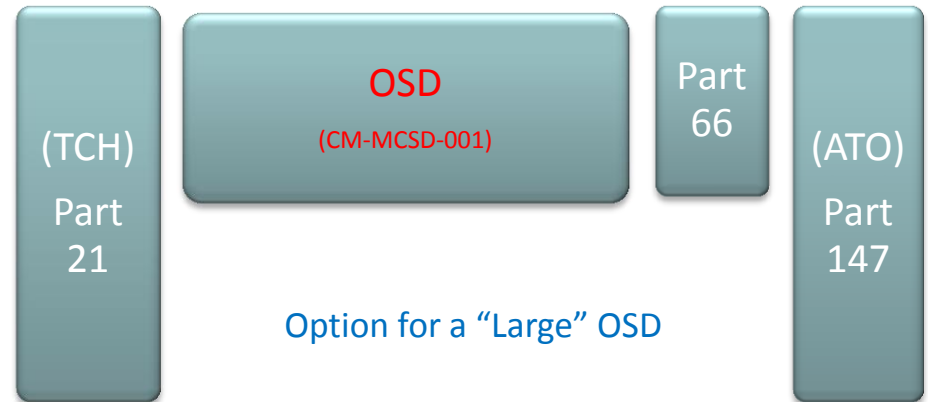
OSD-MCS Certification Basis

- No CS-MCSD already exists
- A Rulemaking Task RMT.106 (21.039e) is in progress to develop the CS-MCSD.
- To cover the transition phase, the Certification Memoranda CM-MCSD-001 **provides specific guidance** in preparation of the **Special Condition** (as per Part 21.A.16B.) which will be included in the operational suitability data certification basis to address the Maintenance Certifying Staff Data (MCSD). The SC is conveyed through a CRI.

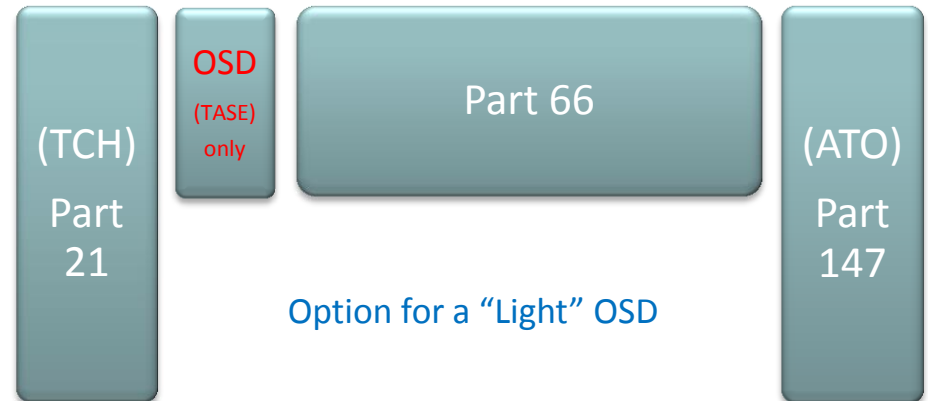


Discussions in RMT.106

OSD has to bridge Part 21 with Part 147...



Option for a "Large" OSD



Option for a "Light" OSD



Whatever will be the decision/compromise, we should avoid an OSD "object" without appropriate anchorage with Part-66!



Current guidance by CM-MCSD-01

Box 1

- TR determination
- A/c maintenance configuration relevant to the TR
- TASEm (*any element considered by the applicant as having a degree of novelty, specificity or uniqueness relevant to the maintenance of his product. This could be a technical or operational feature that maintenance personnel needs to be aware of and take into consideration*).

Box 3

- All and any elements identified by applying the Box1 type of content rationale and which should be considered in addressing a difference training between types or models under the same type



Mandatory Elements

Box 2

- Student prerequisites
- The logical sequence of imparting training elements
- instructional duration
- specific Maintenance Simulation Training Devices (MSTD)

Box 4

- All and any elements identified by applying the Box2 type of content rationale and which should be considered in addressing a difference training between types or models under the same type



Not Mandatory Elements



OSD Template by CM-MCSD-001

Mandatory						Not-Mandatory				
Box 1/3	Box 1/3	Box 1/3	Box 1/3	Box 1/3	Box 1/3	Box 2/4	Box 2/4	Box 2/4	Box 2/4	Box 2/4
ATA Sub. Sys	Subject	Technical Info to be addressed	Theo.	Pract.	TASEm?	Student Prereq.	Optional sys	Logical Seq.	Rec. Duration	MSTD?
To comp. level if necessary ⁽¹⁾		(2)			(3)	(4)				
...
Ex. 24-30	AC power gen. sys	Location	X	Rem./Inst. of the IDGs,..	No	...	N/A
Ex. 24-50-10	CB devices	Normal Operation	X	FOT	Yes	...	N/A
...

⁽¹⁾ In cases when the novelty or other characteristics of the component justify/require such a detail

⁽²⁾ e.g.. location, description, indication, normal operation, abnormal operation, MMEL specific maintenance action,..

⁽³⁾ any element considered by the applicant as having a degree of novelty, specificity or uniqueness relevant to the maintenance of his product. This could be a technical or operational feature that maintenance personnel needs to be aware of and take into consideration

⁽⁴⁾ Knowledge, experience, qualification



Acronyms

AMO	Approved Maintenance Organization	NAA	National Aviation Authority
ATO	Approved Training Organization	OEB	Operational Evaluation Board
CM	Certification Memoranda	OSD	Operational Suitability Data
CAW	Continuous Airworthiness	RMT	Rulemaking Task
CRI	Certification Review Item	SC	Special Condition
CRS	Certificate of Release to Service	STC	Supplemental Type Certificate
CS	Certification Specification	TASEm	Training Area of Special Emphasis maintenance
EIS	Entry Into Service	TCH	Type Certificate Holder
MCS	Maintenance Certifying Staff	TRT	Type Rating Training
MCSD	Maintenance Certifying Staff Data		



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Thank you for your attention !

Questions



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