**SUBPART** **FSTD.**  **REQUIREMENTS for ORGANIZATION’s OPERATING**

 **FSTD’s and the QUALIFICATION of FSTD’s**

 **Section** **I. Requirement’s for Organization’s Operating FSTD’s**

**ORA. FSTD. 100 General**

***a )*** The applicant for an FSTD qualification certificate shall demonstrate to the competent GDCA that it has established a management system in accordance with ORA. GEN Section II. This demonstration shall ensure that the applicant has, directly or through contract, the capability to maintain the performance, functions and other characteristics specified for the FSTD’s qualification level and to control the installation of the FSTD ;

***b )*** If the applicant is the holder of a qualification certificate issued in accordance with this Part, the FSTD specifications shall be detailed :

*1 )* in the terms of the ATO certificate ; *or*

*2 )* in the case of an AOC holder, in the Training Manual.

**ORA. FSTD. 105 Maintaining the FSTD qualification**

***a )*** In order to maintain the qualification of the FSTD, an FSTD qualification certificate holder shall run the complete set of tests contained within the Master Qualification Test Guide ( MQTG ) and functions and subjective tests progressively over a 12-month period ;

***b )*** The results shall be dated, marked as analyzed and evaluated, and retained in accordance with ORA. FSTD. 240, in order to demonstrate that the FSTD standards are being maintained ;

***c )*** A configuration control system shall be established to ensure the continued integrity of the hardware and software of the qualified FSTD.

**ORA. FSTD. 110 Modifications**

***a )*** The holder of an FSTD qualification certificate shall establish and maintain a system to identify, assess and incorporate any important modifications into the FSTD’s it operates, especially :

*1 )* any aircraft modifications that are essential for training, testing and checking, whether or not enforced by an airworthiness directive ; *and*

*2 )* any modification of an FSTD, including motion and visual systems, when essential for training, testing and checking, as in the case of data revisions.

***b )*** Modifications of the FSTD hardware and software that affect handling, performance and systems operation or any major modifications of the motion or visual system shall be evaluated to determine the impact on the original qualification criteria. The organization shall prepare amendments for any affected validation tests. The organization shall Test the FSTD to the new criteria ;

***c )*** The organization shall inform the GDCA in advance of any major changes to determine if the tests carried out are satisfactory. The GDCA shall determine if a special evaluation of the FSTD is necessary prior to returning it to training following the modification.

**ORA. FSTD. 115 Installations**

***a )***  The holder of an FSTD qualification certificate shall ensure that :

*1 )* the FSTD is housed in a suitable environment that supports safe and reliable operation ;

*2 )* all FSTD occupants and maintenance personnel are briefed on FSTD safety to ensure that they are aware of all safety equipment and procedures in the FSTD in case of an emergency ; *and*

3 ) the FSTD and its installations comply with the local regulations for health and safety.

***b )*** The FSTD safety features, such as emergency stops and emergency lighting, *shall be checked* *at least annually and recorded.*

**ORA. FSTD. 120 Additional equipment**

Where additional equipment has been added to the FSTD, even though not required for qualification, it shall be assessed by the GDCA to ensure that it does not adversely affect the quality of training.

**Section** **II. Requirement’s for the Qualification of FSTD’s**

**ORA. FSTD. 200 Application for FSTD Qualification**

***a )*** The application for an FSTD qualification certificate shall be made in a form and manner established by the GDCA of RA :

*1 )* in the case of Basic Instrument Training Devices ( BITD’s ), by the BITD manufacturer ;

*2 )* in all other cases, by the organization intending to operate the FSTD.

***b )*** Applicants for an initial qualification shall provide the competent Authority with documentation demonstrating how they will comply with the requirements established in this Regulation. Such documentation shall include the procedure established to ensure compliance with ORA. GEN. 130 and ORA. FSTD. 230.

**ORA. FSTD. 205 Certification Specifications for FSTD’s**

***a )*** The GDCA of RA shall issue Certification Specifications, in accordance with European Regulation Article 19 of CR-EC No 216 / 2008, Certification Specifications as standard means to show compliance of FSTD’s with the Essential Requirements of Annex III to CR-EC No 216 / 2008 ;

***b )*** Such Certification Specification’s shall be sufficiently detailed and specific to indicate to applicants the conditions under which qualifications will be issued.

**ORA. FSTD. 210 Qualification Basis**

***a )*** The qualification basis for the issuance of an FSTD qualification certificate shall consist of :

*1 )* the applicable Certification Specifications established by the GDCA of RA that are effective on the date of the application for the initial qualification ;

*2 )* the aircraft validation data defined by the mandatory part of the operational suitability

 data as approved under CR-EU No 748 / 2012, if applicable ; *and*

*3 )* any special conditions prescribed by the competent Authority if the related Certification

 Specifications do not contain adequate or appropriate standards for the FSTD because the

 FSTD has novel or different features to those upon which the applicable Certification

 Specifications are based.

***b )*** The qualification basis shall be applicable for future recurrent qualifications of the FSTD, unless it is re-categorized .

**ORA. FSTD. 225 Duration and Continued Validity**

***a )*** The Full Flight Simulator *( FFS ),* Flight Training Device *( FTD )* or Flight and Navigation Procedures Trainer *( FNPT )* qualification shall remain valid subject to :

*1 )* the FSTD and the operating organization remaining in compliance with the applicable Requirement’s ;

*2 )* the competent Authority being granted access to the organization as defined in ORA. GEN. 140 to determine continued compliance according with the relevant requirements of CR-EC No  216 / 2008 and its Implementing Rules ; *and*

*3 )* the qualification certificate not being surrendered or revoked.

**b )**  The *period of* ***12*** *months* established in ARA. FSTD. 120 ( b ) ( 1 ) may be extended up to a *maximum of* ***36*** *months*, in the following circumstances :

*1 )* the FSTD has been subject to an initial and at least one recurrent evaluation that has established its compliance with the qualification basis ;

*2 )* the FSTD qualification certificate holder has a satisfactory record of successful regulatory FSTD evaluations during the previous 36 months ;

*3 )* the competent Authority performs a formal audit of the compliance monitoring system defined in ORA. GEN. 200 ( a ) ( 6 ) of the organization every 12 months ;

*4 )* an assigned person of the organization with adequate experience reviews the regular reruns of the Qualification Test Guide ( QTG ) and conducts the relevant functions and subjective tests every 12 months and sends a report of the results to the GDCA.

***c )*** A BITD qualification shall remain valid subject to regular evaluation for compliance with the applicable qualification basis by the GDCA in accordance with ARA. FSTD. 120 ;

***d )*** Upon surrender or revocation, the FSTD qualification certificate shall be returned to the GDCA of RA.

**ORA. FSTD. 230 Changes to the Qualified FSTD**

***a )*** The holder of an FSTD qualification certificate shall inform the GDCA of any proposed changes to the FSTD, such as :

1 ) major modification’s ;

2 ) relocation of the FSTD ; *and*

3 ) any de - activation of the FSTD.

***b )*** In case of an upgrade of the FSTD qualification level, the organization shall apply to the competent Authority for an upgrade evaluation. The organization shall run all validation tests for the requested qualification level. Results from previous evaluations shall not be used to validate FSTD performance for the current upgrade ;

***c )*** When an FSTD is moved to a new location, the organization shall inform the GDCA before the planned activity along with a schedule of related events. Prior to returning the FSTD to service at the new location, the organization shall perform at least one third of the validation tests, and functions and subjective tests to ensure that the FSTD performance meets its original qualification standard. A copy of the test documentation shall be retained together with the FSTD records for review by the GDCA.

The GDCA may perform an evaluation of the FSTD after relocation. The evaluation shall be in accordance with the original qualification basis of the FSTD ;

***d )*** If an organization plans to remove an FSTD from active status for prolonged periods, the GDCA shall be notified and suitable controls established for the period during which the FSTD is inactive.

The organization shall agree with the GDCA a plan for the de-activation, any storage and re-activation to ensure that the FSTD can be restored to active status at its original qualification level.

**ORA. FSTD. 235 Transferability of an FSTD Qualification**

***a )*** When there is a change of the organization operating an FSTD, the new organization shall inform the GDCA in advance in order to agree upon a plan of transfer of the FSTD ;

***b )*** The GDCA may perform an evaluation in accordance with the original qualification basis of the FSTD ;

***c )*** When the FSTD no longer complies with its initial qualification basis, the organization shall apply for a new FSTD qualification certificate.

**ORA. FSTD. 240 Record - keeping**

The holder of an FSTD qualification certificate shall keep records of :

***a )*** all documents describing and proving the initial qualification basis and level of the FSTD for the duration of the FSTD’s lifetime ; *and*

***b )*** any recurrent documents and reports related to each FSTD and to compliance monitoring activities for *a period of at least* ***5***  *years.*

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