

4797/04.03.2025

CERTIFICAT DE CALIFICARE A ECHIPAMENTULUI DE PREGĂTIRE SINTETICĂ ÎN ZBOR
FLIGHT SIMULATION TRAINING DEVICE QUALIFICATION CERTIFICATE

Nr. RO-FSTD(A)-011

În temeiul regulamentului (UE) nr.1178/2011 al Comisiei și sub rezerva îndeplinirii condițiilor specificate mai jos Autoritatea Aeronautică Civilă Română certifică prin prezenta că:

Pursuant to Commission Regulation (EU) No 1178/2011 and subject to the conditions specified below, the Romanian Civil Aeronautical Authority hereby certifies that:

Entrol A32
Serial Number: SN_146

located at **SC JETAV FLIGHT TRAINING**
OTOPENI-ILFOV, ALEEA VIORELELOR NR.15

a îndeplinit cerințele de calificare prevăzute în partea OR, sub rezerva îndeplinirii condițiilor din specificațiile FSTD anexate.

has satisfied the qualification requirements prescribed in PART-OR, subject to the conditions of the attached FSTD specification:

Prezentul certificat de calificare rămâne valabil cu condiția ca FSTD și titularul certificatului de calificare să respecte în continuare cerințele aplicabile ale părții OR, cu excepția cazurilor în care certificatul a fost înlocuit, suspendat sau revocat ori s-a renunțat la acesta.

This qualification certificate shall remain valid subject to the FSTD and holder of the qualification certificate remains in compliance with the applicable requirements of Part-OR, unless it has been surrendered, suspended or revoked.

Data eliberării: 04 Martie 2025

Date of issue

DIRECTOR GENERAL

Director General

Nicolae STOICA

(E-signed)

CERTIFICAT DE CALIFICARE A FSTD: RO-FSTD(A) -011

FSTD QUALIFICATION CERTIFICATE: RO-FSTD(A) – 011

Specificațiile FSTD

FSTD Specifications

A)	<u>Aeronavă tip/variantă</u> <i>Type/Variant of Aircraft</i>	___ Generic Twin jet Large Aeroplane (A320-B4 Representative).
B)	<u>Nivelul de calificare a FSTD-ului</u> <i>FSTD Qualification Level</i>	___ FNPT II -MCC
C)	<u>Documentele de certificare</u> <i>Primary reference document</i>	___ CS-FSTD(A) Issue 2
D)	<u>Sistemul vizual</u> <i>Visual System</i>	___ Cylindrical display with frontal projection that gives a vision angle of 200x44°. Manufacturer Entrol. Three wide image projectors, with manual size and focus adjustment, display resolution 1920 x 1080. Manufacturer Benq P/N TH671ST. • Image warping and blending system done by OpenGL specific Software. • Image generation software based in Xplane 11, commercial license. • Global terrain database based in SRTM (Shuttle Radar Topography Mission) • Global navigation and airport database: Reference airports updated quarterly by Entrol from AIP and navigation database updated every AIRAC cycle by Entrol using Jeppesen database.
E)	<u>Sistem de mișcare</u> <i>Motion System</i>	___ N/A
F)	<u>Motorizarea simulată</u> <i>Engine Fit</i>	___ Generic TurboFan (based on CFM56-5-B4 representative)
G)	<u>Instrumentele simulate</u> <i>Instrument Fit</i>	___ • Two PFD 'Primary Flight Display' that present the following indications: ◦ Flight attitude with flight director. ◦ Indicated airspeed. ◦ Barometric altitude. ◦ Radio altitude. ◦ Vertical speed. ◦ Side slip indication. ◦ ILS data and markers. • Two ND 'Navigation Display' that present the following indications: ◦ Horizontal situation indicator – similar conventional HSI. ◦ Heading. - Dual pointer indication ADF and VOR. ◦ DME data. ◦ BRNAV FMGS navigation and flight plan data. ◦ Chronometer. - Backup indication of engine instruments. • One EWD 'Engine and Warning Display' that present the following indications: ◦ Engine instruments. ◦ Flap and slat indication. ◦ Warnings and memos. • One SD 'System Display' that present the following indications: ◦ Different pages with the different airplane systems data. ◦ Backup presentation, can be reconfigured as a EWD. • Autopilot with upper modes based on the FMGS for the A320-B4. • Two CDU based on the MCDU of the A320-B4. ◦ Flight plan edition. ◦ GPS monitoring and PBN navigation. ◦ NAV and ADF tuning. • Two RMP: ◦ COM tuning. ◦ Backup for NAV and ADF tuning. • Navigation receivers: ◦ Dual VHF/NAV. ◦ Dual ADF. ◦ Transponder. ◦ GPS. • Dual audio control and marker receiver. • ESIS.
H)	<u>ACAS simulat</u> <i>ACAS Fit</i>	___ YES (ACAS II TCAS 7.1)
I)	<u>Vânt de forfecare</u> <i>Windshear warning system</i>	___ YES
J)	<u>Capabilități suplimentare</u> <i>Additional Capabilities</i>	___ Partial Circuit Breaker Functionality
K)	<u>Restricții / limitări</u> <i>Restrictions / Limitations</i>	___ None

L. Guidance information for training, testing and checking considerations	
CAT I RVR 550 m DH 200 ft	YES
CAT II RVR 300m DH 100ft	YES
CAT III RVR 75m DH 0ft (lowest minimum)	YES
LVTO RVR 125m	YES
Recency	NO
IFR-training / check	YES/YES (as approved by Part-FCL)
Type rating	NO
Proficiency checks	YES (as approved by Part-FCL)
Autocoupled approach	YES
Autoland / roll out guidance	YES/YES
ACAS I / II	NO/YES
Windshear warning system / predictive windshear	YES/NO
WX-radar	YES
HUD / HUGS	NO/NO
FANS	NO
GPWS / EGPWS	NO/YES
ETOPS capability	NO
RNP APCH LNAV	YES
RNP APCH LNAV/VNAV	YES
RNP APCH LPV	YES
RNP AR APCH	YES
Other- Partial Circuit Breaker Functionality	YES

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