

European Union

Finnish Transport and Communications Agency (Traficom)

FLIGHT SIMULATION TRAINING DEVICE (FSTD)

QUALIFICATION CERTIFICATE FI-1A-009

Pursuant to Commission Regulation (EU) No 1178/2011 and subject to the conditions specified below, the Finnish Transport and Communications Agency (Traficom) hereby certifies that

FSTD level	Full Simulator, Level D Flight
Simulated A/C type	Embraer ERJ-170
FSTD manufacturer	CAE Inc.
Serial number	2RUY-595

Located at	Finnair Plc Pyhtäänkorventie 11-13 01530 Vantaa FINLAND
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has satisfied the qualification requirements prescribed in Part-ORA, subject to the conditions of the attached FSTD specification.

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certificate remaining in compliance with the applicable requirements of Part-ORA, unless it has been surrendered, superseded, suspended or revoked.

Date of issue	19 Dec 2019
Signature on behalf of Traficom	
Clarification of the signature	Olli Hänninen
Title	Senior Inspector, Flight Simulators



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- A) Type or variant of aircraft Embraer ERJ-170
- B) FSTD qualification level Full Flight Simulator, Level D
- C) Primary reference document JAR-STD 1A amendment 3, refer also to item J
- D) Visual system CAE Inc. Tropos 6220 image generator, FoV 180°x40°, collimated, three channels, day/twilight/night, LCoS projectors
- E) Motion system 6 degrees of freedom, hydraulic, CAE Inc. 600-series
- F) Engine fit General Electric CF34-8E5, FADEC 5.3
- G) Instrument fit
 - EFIS/EICAS: Honeywell Primus EPIC, load 25.2
 - FMS: Honeywell NZ7.1.2
- H) ACAS fit TCAS II, ver 7.1
- I) Windshear Windshear profiles are available, windshear warning and guidance system is installed
- J) Additional capabilities
 - UPRT, full stall, high altitude stall event and icing in accordance with CS-FSTD(A) issue 2, see item K
 - ATIS
 - Steep approach up to 5.5° approach path angle
 - Smoke generation system
 - RNP APCH to LNAV and LNAV/VNAV minima (APV/Baro-VNAV)
 - The device is suitable for EMB170 license endorsement training, checking and currency including Embraer 170, 175, 190, 195 and ECJ Lineage variants (see EASA OSD Report for ERJ170/190).
- K) Restrictions or limitations UPRT IOS tool: V-n diagram maximum lift curve is not affected by altitude/Mach

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L) Guidance information for training, testing and checking considerations

CAT I	RVR 550 m	DH 200 ft	Yes
CAT II	RVR 300 m	DH 100 ft	Yes
CAT III (lowest minimum)	RVR 200 m	DH 50 ft	Yes
LVTO	RVR 125 m		Yes
Recency			Yes
IFR-training / IFR-checks			Yes / Yes
Type rating			Yes
Proficiency checks			Yes
Autocoupled approach			Yes
Autoland / Roll out guidance			Yes (fail passive) / No (roll out guidance only for 5 sec)
ACAS I / II			N/A / Yes
Windshear warning system / predictive windshear			Yes / N/A
WX-radar			Yes
HUD / HUGS			N/A / N/A
FANS			N/A
GPWS / EGPWS			Yes / Yes
ETOPS capability			Yes
GPS			Yes (2 installed)
Other			See item J above

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