

## European Union

## Finnish Transport and Communications Agency (Traficom)

### FLIGHT SIMULATION TRAINING DEVICE (FSTD)

### QUALIFICATION CERTIFICATE FI-1A-008

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

<b>FSTD level</b>	<b>Full Flight Simulator, Level D</b>
<b>Simulated A/C type</b>	<b>Airbus A320-200</b>
FSTD manufacturer	CAE Inc.
Serial number	2NQ4-253

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certificate remaining in compliance with the applicable requirements of Part-ORA, unless it has been surrendered, superseded, suspended or revoked.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



## FLIGHT SIMULATION TRAINING DEVICE (FSTD)

### QUALIFICATION CERTIFICATE FI-1A-008, FSTD SPECIFICATIONS, Page 1 of 2

A) Type or variant of aircraft	Airbus A320-214 (CFM) and Airbus A320-232 (IAE)
B) FSTD qualification level	Full Flight Simulator, Level D
C) Primary reference document	JAR-FSTD A initial issue
D) Visual system	CAE Inc. Tropos 6220 image generator, FoV 200°x40°, collimated, three channels, day/twilight/night, LCoS projectors
E) Motion system	6 degrees of freedom, hydraulic, CAE series M600
F) Engine fit	<ul style="list-style-type: none"><li>• CFM International CFM 56-5B4, FADEC 5BQ</li><li>• International Aero Engines IAE V2527-A5, FADEC SCN19</li></ul>
G) Instrument fit	<ul style="list-style-type: none"><li>• Instrument fit is Airbus Training Device Standard (STD) 1.7 and following enhancements from STD 1.8</li><li>• EIS2 std S9 (STD 1.8)</li><li>• FWC std H2F5 (STD 1.8)</li><li>• FMGC for CFM: Honeywell std H2C12 (p/n C13042AA04)</li><li>• FMGC for IAE: Honeywell std H2I11 (p/n C13042BA03)</li></ul>
H) ACAS fit	TCAS II, ver 7.1, Allied-Signal (p/n 940-0300-001)
I) Windshear	Windshear profiles are available, windshear warning, predictive windshear system (PWS)
J) Additional capabilities	<ul style="list-style-type: none"><li>• RNP APCH to LNAV and LNAV/VNAV minima (APV/Baro-VNAV)</li><li>• RNP AR approach with RNP 0.3 including RF legs</li><li>• Smoke generation system</li><li>• Back-up speed scale</li><li>• ATIS</li></ul>
K) Restrictions or limitations	No
Date of issue	19 Dec 2019
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**FLIGHT SIMULATION TRAINING DEVICE (FSTD)**

**QUALIFICATION CERTIFICATE FI-1A-008, FSTD SPECIFICATIONS, Page 2 of 2**

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 75 m	no DH	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 operational) / Yes
ACAS I / II			N/A / Yes
Windshear warning system / predictive windshear			Yes / Yes
WX-radar			Yes (Collins, STD 1.8)
HUD / HUGS			N/A / N/A
FANS			N/A
GPWS / EGPWS			Yes / Yes (Honeywell Mk V, p/n 965-1676-003)
ETOPS capability			Yes
GPS			Yes (2 installed)
Other			See item J above

Date of issue

19 Dec 2019

Signature on behalf of Traficom



Clarification of the signature

Olli Hänninen

Title

Senior Inspector, Flight Simulators

