



THE CIVIL AVIATION AUTHORITY OF THAILAND  
FLIGHT SIMULATION TRAINING DEVICE (FSTD)  
QUALIFICATION CERTIFICATE

Pursuant to paragraph 3 (2) d., 3 (3) d., 3 (4) d., 3 (5) d. of The Civil Aviation Board Regulation No.89 Personnel Licensing and section 37 (1) (a) of the Royal Enactment of The Civil Aviation Authority of Thailand, The Civil Aviation Authority of Thailand hereby certifies that

**FSTD Certificate No.**FSTD-166

**S/N:**CAE / 2ERK-1074

**Simulated A/C type:** LEONARDO AW139

**Located at:** PWN Excellence, SDN BHD

Lot 14100, Jalan TUDM, Pangkalan TUDM Subang,  
40150 Shah Alam, Selangor, Malaysia

Has satisfied the qualification requirements, subject to the conditions of the attached Flight Simulation Training Device specification.

The qualification certificate shall remain valid subject to the regulation of civil aviation authority of Thailand on flight simulation training device certification and remaining in compliance with the application requirements. This certificate shall be effective from (16/04/23) and remain force until (15/04/24) unless superseded, suspended or revoked.

Date of issue:

Signature

Clarification of the signature

Title



MANAGER OF PERSONNEL LICENSING DEPARTMENT  
FOR DIRECTOR GENERAL



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Attachment to FSTD Certificate No. :FSTD-166

A.	Type or variant of aircraft:	LEONARDO AW139
B.	FSTD qualification level:	HELICOPTER FFS Level D
C.	Primary reference	GM-FSTD Issue 2
D.	Visual system:	CAE, Medallion 6220, DLP Projectors, FOV 210 degx80deg, non-collimated
E.	Motion system:	CAE, EMM60, electric, 6 DOF, 3 DOF vibration platform
F.	Engine fit:	Pratt & Whitney Canada PT6C-67C
G.	Instrument fit:	According to rotorcraft type equipped with Honeywell Primus Epic Rev. 5.6 and 7.4
H.	ACAS fit:	TCAS I (Under epic Rev 5.6 )/ II 7.1 (under Epic Rev. 7.4)
I.	Windshear:	Profiles Available
J.	Additional capabilities:	None
K.	Restrictions or limitations:	None

L.	Guidance information for training, testing and checking considerations		
CAT I	RVR 500 m	DH 200 ft	YES
CAT II	RVR 300 m	DH 100 ft	N/A
CAT III (lowest minimum)	RVR - m	DH - ft	N/A
LVTO	RVR 150 m		YES
Recency			YES
IFR-training / check			YES / YES
Type rating			YES
Proficiency checks			YES
Autocoupled approach			YES
Autoland / roll out guidance			N/A / N/A
ACAS I / II			YES / YES
Windshear warning systems / predictive windshear			N/A / N/A
WX-radar			YES
HUD / HUGS			N/A / N/A
FANS			N/A
GPWS / EGPWS			N/A / YES
GPS			YES
ETOPS capability			N/A
Other	Airborne Radar Approach (ARA), ditching, ship landing, elevated platform landing, GW increase to 6800kg, Searchlight Nightsun Spectrolab SX-5, emergency floats, Engine Advanced Protection System (EAPS), 2nd GPS, dual rescue hoist (1 sling), cargo hook with cameras, Full Ice Protections System (FIPS), Night Vision Goggle (NVG), Compatible lighting / visual system, RNP APCH limited to: [LNAV, LNAV/VNAV, LPV (only available under EPIC Rev. 7.4)]		

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FOR DIRECTOR GENERAL