



No. CAAT 10/4500

The Civil Aviation Authority of Thailand  
222 Soi Vibhavadi Rangsit 28,  
Vibhavadi Rangsit Rd., Chatuchak,  
Chatuchak , Bangkok 10900, Thailand

30 April 2025

Dear Mr. Hazlee Jehan,

**Subject: Issuance of FSTD certificate for PWN Excellence Sdn Bhd.**

**Attachment: Certificates of FSTD-166**

Reference is made to EMPIC REQUEST- 72982 seeking approval from The Civil Aviation Authority of Thailand (CAAT) for the renewal certification of FSTD-166 for PWN Excellence Sdn Bhd.

In this regard, CAAT has reviewed the documents submitted via the aforementioned EMPIC REQUESTs and has completely conducted the on-site inspection. It has been found that the listed FSTDs are in conformity with the Regulations of the Civil Aviation Authority of Thailand on the Certification of Flight Simulation Training Devices B.E. 2558. As a result of the completed process, CAAT hereby issued the certificate for FSTD-166 as attached herewith.

Should you need any further information, please do not hesitate to contact us.

Yours sincerely,

(Glot Sanalaksna)

Personnel Licensing Department Manager 12

For Director General

The Civil Aviation Authority of Thailand

Mr. Hazlee Jehan  
Chief Executive Officer  
Lot 14100 Jalan TUDM, Pangkalan Udara Subang  
Shah Alam, Malaysia, 40150



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 This certificate shall be effective from (16/04/25) and remain force until (15/04/26) unless superseded, suspended or revoked.

Date of issue:

Signature

Clarification of the signature

Title



(GLOTHANALAKSNA)

Personnel Licensing Department Manager 12 For Director General



# THE CIVIL AVIATION AUTHORITY OF THAILAND

## FLIGHT SIMULATION TRAINING DEVICE (FSTD)

### QUALIFICATION CERTIFICATE

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 document:	GM-FSTD (H) Issue 01
D.	Visual system:	CAE, Medallion 6220, Projectors: Qty 8-Barco Sim5W, FOV 210 degx80deg, non-collimated
E.	Motion system:	CAE, EMM60, electric, 6 DOF, 3 DOF Electric Vibration
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)]		

Date of issue:

Signature

Clarification of the signature

Title

Personnel Licensing Department Manager 12 For Director General

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