



**Philippine
Accreditation
Bureau**

CERTIFICATE OF ACCREDITATION

The Philippine Accreditation Bureau, Department of Trade and Industry, grants accreditation to

MESCO, INC. – Calibration Laboratory
Mesco Bldg., Reliance cor. Brixton Sts., Kapitolyo, Pasig City

having been assessed and found conforming to the requirements of **PNS ISO/IEC 17025:2017** and the PAB conditions for laboratory accreditation in the field of **Calibration** as specified in the Scope of Accreditation.

Accreditation Number:	LA-2024-453A
Scope Reference:	ACAL-0324-453A
Accreditation Validity:	March 10, 2029
Date Issued:	March 11, 2024

Validity of accreditation and this certificate is effective subject to continuing conformity with the criteria and PAB conditions for accreditation.

A blue ink signature of James E. Empeño, consisting of stylized loops and a long horizontal stroke.

JAMES E. EMPEÑO
Director IV
Philippine Accreditation Bureau



**PAB ACCREDITED
CALIBRATION LABORATORY
PNS ISO/IEC 17025:2017
LA-2024-453A**



ACAL-0324-453A

SCOPE OF ACCREDITATION

MESCO, INC. – Calibration Laboratory MESCO Bldg., Reliance cor. Brixton Sts., Kapitolyo, Pasig City

Calibration

Classification of Scopes	Measured quantities/ instrument	Range to be calibrated	Calibration and Measurement Capability (CMC)*	Standard Method/ Reference Standard
Engineering Metrology Equipment				
Electronic/vernier/ dial calipers	Calibration of Vernier Caliper	0 to 150 mm	12 μ m	CM-CD-001
		0 to 200 mm	12 μ m	
		0 to 300 mm	12 μ m	
		0 to 450 mm	12 μ m	
		0 to 600 mm	13 μ m	
		0 to 1000 mm	15 μ m	
	Calibration of Dial Caliper	0 to 150 mm	6 μ m	
		0 to 200 mm	6 μ m	
		0 to 300 mm	6 μ m	
		0 to 450 mm	7 μ m	
		0 to 600 mm	8 μ m	
		0 to 1000 mm	11 μ m	
	Calibration of Digital Caliper	0 to 150 mm	6 μ m	
		0 to 200 mm	6 μ m	
		0 to 300 mm	6 μ m	
		0 to 450 mm	7 μ m	
		0 to 600 mm	8 μ m	
		0 to 1000 mm	11 μ m	
Internal/External micrometers	Calibration of Digital/External/ Outside Micrometer	0 to 25 mm	0.7 μ m	CM-CD-002
		25 to 50 mm	0.8 μ m	
		50 to 75 mm	0.9 μ m	
		75 to 100 mm	1.1 μ m	
		100 to 125 mm	1.3 μ m	
		125 to 150 mm	1.5 μ m	
Electronic indicators, dial gauges and test indicators	Calibration of Dial Gauge	0.01mm resolution	0.9 μ m	CM-CD-003
		0.001 and 0.002mm resolutions	0.5 μ m	
	Calibration of Dial Dial Test Indicator	0.01mm resolution	0.9 μ m	CM-CD-005
		0.001 and 0.002mm resolutions	0.5 μ m	



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	Calibration of Digimatic Indicator/ Thickness gauge	0 to 100 mm for 0.001 and 0.0005 mm resolution	0.7 μ m	CM-CD-26
		0 to 100 mm for 0.01 mm resolution	3 μ m	
Electronic and Vernier Height and Depth Gauges	Calibration of Digital Height Gauge	0 to 150 mm	6 μ m	CM-CD-012
		0 to 200 mm	6 μ m	
		0 to 300 mm	7 μ m	
		0 to 450 mm	7 μ m	
		0 to 600 mm	8 μ m	
		0 to 1000 mm	11 μ m	
	Calibration of Vernier Height Gauge	0 to 150 mm	12 μ m	
		0 to 200 mm	12 μ m	
		0 to 300 mm	12 μ m	
		0 to 450 mm	12 μ m	
		0 to 600 mm	13 μ m	
		0 to 1000 mm	15 μ m	
	Calibration of Dial Height Gauge	0 to 150 mm	6 μ m	
		0 to 200 mm	6 μ m	
		0 to 300 mm	7 μ m	
		0 to 450 mm	7 μ m	
		0 to 600 mm	8 μ m	
		0 to 1000 mm	11 μ m	
	Calibration of Digital Depth Gauge	0 to 150 mm	6 μ m	
		0 to 200 mm	6 μ m	
		0 to 300 mm	7 μ m	
	Calibration of Vernier Depth Gauge	0 to 150 mm	12 μ m	
		0 to 200 mm	12 μ m	
		0 to 300 mm	12 μ m	
	Calibration of Dial Depth Gauge	0 to 150 mm	6 μ m	



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		0 to 200 mm	6 μm	
		0 to 300 mm	7 μm	
Feeler Gauges	Calibration of Feeler Gauge	0.01 to 3mm	1.7 μm	CM-CD-008
Bore Gauges	Calibration of Bore Gauge	0 to100mm	1.0 μm	CM-CD-007
Surface Plates	Standard Capacity Measures (Volumetric method)	300 to 2900 mm diagonal	0.75 μm	CM-CD-020
Length and angle standards				
Gauge Blocks and Accessories	Calibration of Steel/Ceramic Gauge Block	0.5 to 10 mm	0.056 μm	CM-CD-025
		10 to 25 mm	0.060 μm	
		25 to 50 mm	0.090 μm	
		50 to 75 mm	0.120 μm	
		75 to 100 mm	0.150 μm	
Surface Topography				
Surface Texture Surftest	Surface Texture Surftest Straightness of Drive Unit	0 to 100 mm	0.6 μm	CM-CD-015
		0 to 12.5 mm	0.1 μm	
Surface Texture Contracer	Surface Texture Contracer	0 to 100 mm	1.2 μm	CM-CD-014
		±30 mm	1.2 μm	
Roundness	Roundness Roundtest Rotational Accuracy in Radius Direction	0 to 30 mm	0.02 μm	CM-CD-016
	Parallelism Measurement	0 to 400 mm	0.33 μm	
Dimensional Precision Instruments				
Length Measuring	Vision Measuring System	0 to 600 mm	1.2 μm	



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machines	X-axis & Y-axis measurement			CM-CD-019
	Z-axis measurement	0 to 250 mm	1.2 μ m	
	Squareness	0 to 600 mm	1.8 μ m	
Coordinate Length Measuring machines	CNC CMM	0 to 1700 mm	0.9 μ m	CM-CD-018
	Length Accuracy	0 to 2500 mm	1.3 μ m	
	Touch Probe Performance	18 to 26 mm	0.7 μ m	
	Scanning Performance	17 to 26 mm	0.7 μ m	
	Manual CMM Length Accuracy	0 to 1000 mm	2.6 μ m	CM-CD-019
	Squareness	0 to 600 mm	2.8 μ m	
	Touch Probe Performance	0 to 20 mm	0.7 μ m	
	Portable CMM	0 to 1000 mm	1.2 μ m	CM-CD-029
Precision Projection Apparatus	Profile Projectors (Linear Only)	0 to 300 mm	2.09 μ m	CM-CD-027
	Toolmakers Microscope /Measuring Microscope (Linear Only)	0 to 400 mm	1.98 μ m	CM-CD-017
Testing Machines				
Vickers hardness machines	Vickers Hardness Testing	HV5	2.0 HV	CM-CD-022
		HV10		
		HV30		
		HV50		
		HV100		
Rockwell hardness machines	Rockwell Hardness Testing	HRA	1.0 HR	CM-CD-023
		HRD		
		HRC		



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Rockwell superficial hardness machines	Rockwell superficial hardness Testing	HRF	1.0 HR	CM-CD-023
		HRB		
		HR30N		
		HR30T		
Vickers low-load hardness machines (HV0.2 to HVS)	Vickers low-load hardness Testing	HV0.2	1.0 HV	CM-CD-022
		HV0.3		
		HV0.5		
		HV1		
		HV2		
		HV3		
		HV5		
Vickers hardness machines (less than HV0.2)	Micro Vickers hardness Testing Baths	HV0.01	1.0 HV	CM-CD-022
		HV0.02		
		HV0.03		
		HV0.05		
		HV0.1		
		HV0.2		

* CMC expressed as an expanded uncertainty having a specific coverage probability of approximately 95%



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