

## PROFICIENCY TESTING PROGRAMME

### REQUEST FOR PARTICIPATION

**Laboratory:**

**Address:**

**Contact Person:**

**Tel. & Fax No:**

**E-mail:**

NMIM will issue a proforma invoice to applicant upon acceptance of the PT participation form. Applicant shall pay the participation fee in full within 15 days of the proforma invoice date, otherwise the participation is considered cancelled.

We wish to participate in the following PT programme(s) - please tick . By signing, I agree to NMIM Proficiency Testing Activities terms and conditions stated overleaf.

**Signed:**

\_\_\_\_\_

**Date:**

\_\_\_\_\_

**Stamp:**

Name of Program	Test Item and Range	Start Date	*PT Fee (RM)
			Peninsular Malaysia
<input type="checkbox"/> PT1-6-20024 Calibration of Timer	Test Item: Timer Omron H5CX-ASD Test Points: - Time Interval: 7200 s Readout Resolution: 1 s	April 2024	1,350
<input type="checkbox"/> PT2-14-2024 Calibration of Total Immersion in Glass Thermometer	Test Item: Total Immersion Liquid in Glass Thermometer (2 units) Test points LIGT 1: 0 °C, -50 °C, -10 °C, 0 °C Expanded Uncertainty: 0.1 °C Test points LIGT 2: 0 °C, 50 °C, 90 °C, 0 °C Expanded Uncertainty: 0.04 °C (Participant must calibrate all points for each LIGT)	May 2024	2,500
<input type="checkbox"/> PT2-15-2024 Calibration of Temperature Liquid Bath (Onsite at NMIM)	Test Item: Temperature Liquid Bath Test points: 20 °C, 50 °C, 70 °C Expanded Uncertainty: 0.006 °C	June 2024	1,700
<input type="checkbox"/> PT2-5-2024 Calibration of Infrared Thermometer	Test Item: Infrared Thermometer Test Point: 50 °C, to 600 °C Expanded Uncertainty: 1.1 °C to 3.5 °C	May 2024	1,900
<input type="checkbox"/> PT2-16-2024 Calibration of Rotational Viscometer	Test Item: Rotational Viscometer Test Point: (100, 1000, 5000, 10000, 60000) mPa.s @ 25 °C Relative Expanded Uncertainty: 1%	April 2024	3,000
<input type="checkbox"/> PT2-3-2024 Calibration of Relative Humidity Sensor (10 %rh to 95 %rh at 25 °C)	Test Item: Temperature Humidity Transmitter (1 unit) Relative Humidity: 10 %rh, 30 %rh, 50 %rh, 70 %rh and 5 %rh at 25 °C Expanded Uncertainty: 1.0 %rh to 1.4 %rh	April 2024	1,700
<input type="checkbox"/> PT2-9-2024 Calibration of Hydrometer	Test Item: Density Hydrometer (2 units) Range: (0.800 g/ml - 0.850 g/ml) and (1.300 g/ml - 1.350 g/ml) Uncertainty: 0.0003 g/ml	June 2024	1,900
<input type="checkbox"/> PT2-8-2024 Calibration of Heat Enclosure (Onsite at NMIM)	Test Item: Universal Oven (1 unit) Test points: 100 °C and 200 °C Expanded Uncertainty: 1.5 °C	April 2024	1,600

<input type="checkbox"/> PT3-01-2024 Calibration of Micropipette 100 $\mu$ L	<p>Test Item: Variable Micropipette 100 <math>\mu</math>L (1 unit)</p> <p><b>Please stated test points with uncertainty/resolution or other important details that can help lab decide whether or not to join the program</b></p>	April 2024	1,600
<input type="checkbox"/> PT4-5-2024 Calibration of Digital Micrometer	<p>Test Item: Digital Micrometer (1 unit)</p> <p>Resolution/Range: 0.001 mm / 0 – 25 mm</p> <p>Test points: 0, 2.5, 5.1, 7.7, 10.3, 12.9, 15, 17.6, 20.2, 22.8, 25 mm</p> <p>Uncertainty: 0.002 mm (Approximately)</p>	April 2024	1,500
<input type="checkbox"/> PT4-6-2024 Calibration of Digimatic Indicator	<p>Test Item: Digimatic Indicator (1 unit)</p> <p>Range: 0 – 50 mm Resolution: 0.001 mm Test point: 0.0 mm, 0.1 mm, 0.2 mm, 0.3 mm, 0.4 mm, 0.5 mm, 1.0 mm, 1.5 mm, 2.0 mm, 2.5 mm, 3.0 mm, 4.0 mm, 5.0 mm, 10.0 mm, 15.0 mm, 20.0 mm, 25.0 mm, 30.0 mm, 35.0 mm, 40.0 mm, 45.0 mm and 50.0 mm.</p> <p>Uncertainty: 0.002 mm (Approximately)</p>	April 2024	1,700
<input type="checkbox"/> PT4-10-2024 Calibration of Digital Caliper	<p>Test Item: Digital Caliper (1 unit)</p> <p>Resolution/Range: 0.001 mm / 0 – 150 mm</p> <p>Test points: 2.5 mm, 20.0 mm, 50.0 mm, 80.0 mm, 100.0 mm, 150.0 mm and 300.0 mm.</p> <p>Uncertainty: 0.002 mm (Approximately)</p>	April 2024	1,500
<input type="checkbox"/> PT4-12-2024 Calibration of Feeler Gauge	<p>Test Item: Feeler Gauge (1 unit)</p> <p>Range: 0 – 1.0 mm</p> <p>Test points: 0.05, 0.20, 0.50, 1.00 mm</p> <p>Uncertainty: 0.07 mm (Approximately)</p>	April 2024	1,500
<input type="checkbox"/> PT4-15-2024 Calibration of Height Gauge	<p>Test Item: Height Gauge (1 unit)</p> <p>Resolution/Range: 0.01 mm / 0 – 300 mm</p> <p>Test points: 20 mm, 50 mm, 100 mm, 150 mm, 200 mm, 250 mm and 300 mm.</p> <p>Uncertainty: 0.02 mm (Approximately)</p>	April 2024	1,500
<input type="checkbox"/> PT4-16-2024 Calibration of Dial Thickness Gauge	<p>Test Item: Dial Thickness Gauge (1 unit)</p> <p>Range: 0 – 20 mm Resolution: 0.01 mm</p> <p>Test point: 0.10 mm, 0.20 mm, 0.30 mm, 0.40 mm, 0.50 mm, 1.00 mm, 1.50 mm, 2.00 mm, 2.50 mm, 3.00 mm, 4.00 mm, 5.00 mm, 10.00 mm, 15.00 mm and 20.00 mm.</p> <p>Uncertainty: 0.02 mm (Approximately)</p>	April 2024	1,500

<input type="checkbox"/> PT4-30-2024 Calibration of Pin Gauge	Test Item: Pin Gauge (1 unit) Range: 5.5 mm – 25.0 mm Test points: 5.5 mm, 10.0 mm, 15.0 mm and 25.0 mm Uncertainty: 0.001 mm (Approximately)	April 2024	1,500
<input type="checkbox"/> PT4-8-2024 Calibration of Platform Scale (Onsite at NMIM)	Test Item: Platform Scale (1 unit) Platform scale with capacity 3000 kg and readability 0.01 kg: Perform the calibration for the following parameters: Repeatability Test, Eccentricity Test and Weighing Performance.	July 2024	2,200
<input type="checkbox"/> PT4-22-2024 Calibration of Roughness Tester	Test Item: Mitutoyo SJ-210 Portable Roughness Tester (1 unit) To be measured using reference specimen of 2.94 $\mu\text{m}$ Ra Value Uncertainty: 1 $\mu\text{m}$	June 2024	2,500
<input type="checkbox"/> PT4-40-2024 Calibration of Precision Reference Specimen	Test Item: Mitutoyo Precision Reference Specimen (1 unit) Ra = 2.94 $\mu\text{m}$ Uncertainty: 0.05 $\mu\text{m}$	June 2024	1,700
<input type="checkbox"/> PT4-9-2024 Calibration of Glass Scale	Test Item: Glass Scale (1 Unit) Range = 0 - 200 mm Test points: interval every 20 mm Uncertainty: ~ 0.08 $\mu\text{m}$	June 2024	2,000
<input type="checkbox"/> PT4-36-2024 Calibration of linear measuring instrument (error of displacement and position) (Onsite at NMIM)	Linear measuring instrument (1 unit) Range = 0 - 2000 mm Test points: interval every 200 mm Uncertainty: ~ 0.001 mm	July 2024	6,200
<input type="checkbox"/> PT4-11-2024 Calibration of Long Gauge Block	Test Item: Long Gauge Blocks (3 units) Range = 150 mm, 200 mm and 300 mm Test points: Central Length Uncertainty: ~ 0.4 $\mu\text{m}$	Jun 2024	2,000
<input type="checkbox"/> PT4-20-2024 Calibration of Mu Checker (Onsite at NMIM)	Test Item: Mu Checker (1 unit) Range = $\pm 50$ $\mu\text{m}$ Test points: every 10 $\mu\text{m}$ Uncertainty: ~ 1.0 $\mu\text{m}$	July 2024	1,400
<input type="checkbox"/> PT4-14-2024 Calibration of Plain Plug Gauge	Test Item: Plug Gauge (1 unit) Range = 50 mm Test points: external diameter Uncertainty: ~ 0.4 $\mu\text{m}$	May 2024	1,500
<input type="checkbox"/> PT4-13-2024 Calibration of Plain Ring Gauge	Test Item: Ring Gauge (2 units) Range = 30.004 mm nad 49.997 mm Test points: Internal diameter Uncertainty: ~ 0.4 $\mu\text{m}$	May 2024	1,700

<input type="checkbox"/> PT4-17-2024 Calibration of Dial Gauge Tester/Calibration Tester	<p>Test Item: Dial Gauge Tester/Calibration Tester (1 unit) Range: 0 - 25 mm Test points: 0.000,0.001,0.002,0.003,0.004,0.005,0.006,0.007,0.008,0.009, 0.01,0.02,0.03,0.04,0.05,0.1,0.2,0.3,0.4,0.5,1.0,1.5,2.0,2.5,3.0,3.5, 4.0,4.5,5,6,7,8,9,10,11,12, 13,14,15,20,25 Uncertainty: TBA</p>	Jun 2024	2,000
<input type="checkbox"/> PT4-18-2024 Calibration of 1 meter Steel Ruler	<p>Test Item: 1 meter Steel Ruler (1 unit) Range: 0 - 1000 mm Test points: 0, 200, 400, 600, 800, 1000 Uncertainty: TBA</p>	May 2024	1,500
<input type="checkbox"/> PT4-19-2024 Calibration of Measuring Tape	<p>Test Item: Measuring Tape (1 unit) Range: 10 m Test point: 0 m, 2 m, 4 m, 6 m, 8 m and 10 m Uncertainty: ~ 0.030 mm</p>	June 2024	1,500
<input type="checkbox"/> PT4-21-2024 Calibration of Measuring Microscope (Onsite at NMIM)	<p>Test Item: Measuring Microscope (1 unit) Range: X-axis=200 mm &amp; Y-axis=80 mm Test point X-axis: 20 mm, 40 mm, 60 mm, 80 mm, 100 mm, 120 mm, 140 mm, 160 mm, 180 mm and 200 mm. Y- axis: 10 mm, 20 mm, 30 mm, 40 mm, 50 mm, 60 mm, 70 mm and 80 mm. Uncertainties: ~0.9 µm</p>	May 2024	1,700
<input type="checkbox"/> PT4-33-2024 Calibration of L-Square	<p>Test Item: L-Square (1 unit) Range: 300 mm &amp; 270 mm Test points: Squareness at 300 mm &amp; 270 mm Uncertainty: TBA</p>	May 2024	2,000
<input type="checkbox"/> PT4-34-2024 Calibration of 3D Artefact (CMM)	<p>Test Item: 3D Artefact (1 unit) Parameter: Diameter D1, Diameter D2, Diameter D3, Roundness D3, Distance A, Distance B, Distance C, Distance D, Distance E, Distance F, Angle 1, Angle 2, Flatness T Uncertainty: TBA</p>	July 2024	2,500
<input type="checkbox"/> PT4-39-2024 Calibration of Caliper Checker	<p>Test Item: Caliper Checker (1 unit) Range: 600 mm Test Point: 0,20,50,100,150,200,250,300,350,400,450,500,550,600 mm Uncertainty: TBA</p>	Jul-24	2,000

<input type="checkbox"/> PT4-38-2024 Calibration of Threaded Plug Gauge	Test Item: Threaded Plug Gauge Range: Up to 25 mm Test Point: Simple pitch diameter Uncertainty: 1~2 µm	August 2024	1,700
<input type="checkbox"/> PT4-37-2024 Calibration of Threaded Ring Gauge	Test Item: Threaded Ring Gauge Range: Up to 25 mm Test Point: Simple pitch diameter Uncertainty: 1~2 µm	August 2024	1,700
<input type="checkbox"/> PT4-2-2024 Calibration of Short Gauge Block using Mechanical Comparison Method	Test Item: Gauge block (4 units) Size: 1.01 & 100 mm (Steel), 8 & 20 mm (Ceramic) Uncertainty: [0.07 µm, 2.0E-6L], [0.07 µm, 1.8E-6L]	April 2024	1,500
<input type="checkbox"/> PT4-23-2024 Calibration of Precision Level	Test Item: Precision Level (1 unit) Range: 1 Div. = 0.02 mm/m Test Point: 0.02, 0.04, 0.06, 0.08 & 0.10 mm/m (Left and right) Uncertainty: 0.007 mm/m	April 2024	1,500
<input type="checkbox"/> PT4-24-2024 Calibration of Rotary Table (Onsite at NMIM)	Test Item: Rotary table (1 unit) Range: 0° - 360° Test points: 0°, 60°, 120°, 180°, 240°, 300°, 360° Uncertainty: 1.0"	April 2024	1,400
<input type="checkbox"/> PT4-25-2024 Calibration of Angle Gauge Block	Test Item: Angle gauge blocks (3 units) Test points: 1", 20', 5° Uncertainty: 0.70" Method: Non-contact only	April 2024	1,700
<input type="checkbox"/> PT4-26-2024 Calibration of Granite Table (Onsite at NMIM)	Test Item: Granite table (1 unit) Size: 1000 mm x 1000 mm Uncertainty: 3.6 µm	April 2024	1,200
<input type="checkbox"/> PT4-31-2024 Calibration of Angle Level Meter	Test Item: Angle level meter (1 unit) Test points: 0°, 20°, 40°, 80° Uncertainty: 1.2°	April 2024	1,500
<input type="checkbox"/> PT4-32-2024 Calibration of Angle Protractor	Test Item: Angle Protractor Test points: 0°, 5°, 30°, 45° Uncertainty: 0.115°	April 2024	1,500

<input type="checkbox"/> PT5-6-2024 Calibration of Portable Gas Detector (Onsite at NMIM)	<p>Test Item: Portable Gas Detector Or Calibration Gas (1 unit)</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Gas (Portable)</th> <th>Test Point</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Carbon Monoxide</td> <td>100 ppm</td> </tr> <tr> <td>2</td> <td>Hydrogen Sulfide</td> <td>25 ppm</td> </tr> <tr> <td>3</td> <td>Methane</td> <td>50 %LEL</td> </tr> <tr> <td>4</td> <td>Oxygen</td> <td>18.0 %</td> </tr> </tbody> </table>	No.	Gas (Portable)	Test Point	1	Carbon Monoxide	100 ppm	2	Hydrogen Sulfide	25 ppm	3	Methane	50 %LEL	4	Oxygen	18.0 %	<p>April 2024</p>	<p>1,600</p>
No.	Gas (Portable)	Test Point																
1	Carbon Monoxide	100 ppm																
2	Hydrogen Sulfide	25 ppm																
3	Methane	50 %LEL																
4	Oxygen	18.0 %																

\* PT fee shown is for Peninsular Malaysia only and delivery charges are included in the PT fee.

\* For Sabah, Sarawak and Labuan, the quotation will be issued based on participation.