



Metrology Skill Program

MSP 2026



National Metrology Institute of Malaysia



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Module	MSP Title	Fee/person (RM)	Duration Day(s)	Month											
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Quality	Calibration and measurement system	1300	1	12	2	R A M A D H A N & S Y A W A L	6	4	8	6	4	7	5	2	1
	Introduction to evaluation of measurement uncertainty	2300	2	13	3		7	5	9	7	5	8	6	3	2
				14	4		8	6	10	8	6	9	7	4	3
	Understanding the requirements for the competence of testing and calibration laboratories based on QMS ISO/IEC 17025:2017.	2300	2		9			12		23		21			
					10			13		24		22			
Interpretation of calibration certificates	1300	1	15	5	9		7	11	9	7	10	8	5	4	
Flow	Petroleum storage tank calibration	1500	1					4					5		
	Liquid flow measurement	3300	3					5					6		
								6				7			
								7				8			
	Prover tank calibration	1500	1					8				9			
	Calibration of volumetric apparatus	1500	1				13					7			
	Measurement uncertainty of volumetric apparatus	1300	1				14					8			
	Calibration of air speed anemometer and Measurement uncertainty of air speed anemometer	1500	1				15					9			
Micropipette calibration	1500	1			16						10				

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Electrical	Time & frequency measurement	2700	2			R A M A D H A N & S Y A W A L		5					6		
								6					7		
	Calibration of multimeter	2700	2		4			6			5			11	
					5			7			6			12	
	RF and microwave power measurement	3000	2					20			18			3	
								21			19			4	
	Measurement uncertainty evaluation in electrical measurement and calibration	3300	2	20	9		6	5	8	6	3	7	12	16	7
				21	10		7	6	9	7	4	8	13	17	8
	Measurement and calibration of standard resistor/current shunt/current source	2700	2	22	11		8	7	10	8	5	9	14	18	9
				23	12		9	8	11	9	6	10	15	19	10
	Acoustics measurement and calibration	2200	1					4					13		
	Vibration measurement and calibration	2200	1					5					14		
	Magnetics measurement and calibration	RFQ	Content upon request	*	*		*	*	*	*	*	*	*	*	*
	Impedance measurement and calibration	RFQ	Content upon request	*	*		*	*	*	*	*	*	*	*	*
	Competency Program on Multimeter	RFQ	3	*	*		*	*	*	*	*	*	*	*	*
	Competency Program on Power Meter	RFQ	3	*	*		*	*	*	*	*	*	*	*	*
	Competency Program on Calibration of Electrical Data Acquisition	RFQ	2.5	*	*		*	*	*	*	*	*	*	*	*

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Chemistry	Measurement uncertainty for chemical analysis (Basic)	1560	2		10	R A M A D H A N & S Y A W A L		12			11			17	
					11			13			12			18	
	Measurement uncertainty for chemical uncertainty (Advanced)	1080	1				23				10				
	Measurement uncertainty for chemical analysis (Basic) - online	980	2				16						1		
							17						2		
	Analytical method validation and verification	1560	2				13			15			21		
							14			16			22		
	Analytical method validation and verification-online	980	2		12				3				7		
					13				4				8		
	Statistics and data analysis using MS Excel for chemist	1080	1					4			10				
	Statistics and data analysis using MS Excel for chemist (online)	980	1					7			17				
	ISO/IEC 17025:2017-General requirements for the competence of testing and calibration laboratories	1560	2		9				24			7			
					10				25			8			
	ISO/IEC 17043:2023-General requirements for proficiency testing for chemical	1560	2							7					
										8					
	ISO 13528:2022-Statistical methods for proficiency testing by interlaboratory comparison	1560	2							23					
										24					
	Package: Combination of ISO/IEC 17043:2023 and ISO 13528	4180	3									21			
												22			
												23			

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Chemistry	Reference material producer in compliance with ISO 17034 (requirements) and ISO 33405 (statistics)	4180	3									28			
												29			
												30			
	Risk assessment for compliance with ISO 17025 or ISO 17043 or ISO 17034	1080	1		13			5					29		
	Calibration and measurement of rice moisture meter by drying oven method (ISO 712)	2300	2					20							
								21							
	Calibration and measurement of energy dispersive x-ray fluorescence (EDXRF)	2300	2		10				8		5		22		
					11				9		6		23		
	Calibration and measurement of Inductively Coupled Plasma Mass Spectrometry (ICP-MS)	2300	2				22								
							23			15			6		
	Calibration and measurement of Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)	2300	2							16			7		
	Primary method development Isotope Dilution Mass Spectrometry (IDMS) for inorganic analysis	5580	5				13			13					
							14			14					
							15			15					
							16			16					
							17			17					
	Primary method development Isotope Dilution Mass Spectrometry (IDMS) for organic analysis	5580	5					4			10		19		
								5			11		20		
								6			12		21		
								7			13		22		
								8			14		23		
	Calibration and measurement of gas analyzer	700	0.5	29	12		23		24	24	24	24			
	Calibration and measurement of pH	1080	1	28			28			28		28			
	Calibration and measurement of gas chromatography-FID/TCD	2300	2	27			28		24		20	10			
				28			29		25		21	11			
	Calibration and measurement of Karl Fisher Titrator	1080	1				15			23		24			

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Mechanical	Calibration of mass standards (OIML Classes E2 and below)	2000	1	20	9	R A M A D H A N & S Y A W A L	20	11	22	27	10	7	19	16	14
	Measurement uncertainty evaluation of mass standard calibration - Classes E2 and below)	1700	2	21	10		21	12	23	28	11	8	20	17	15
				22	11		22	13	24	29	12	9	21	18	16
	Calibration of weighing balances	2000	1	27	12		23	14	25	30	13	10	22	19	17
	Measurement uncertainty evaluation of weighing balance calibration	1700	1	28	13		24	15	26	31	14	11	23	20	18
	Calibration of weighbridge using substitution method	3000	1	*	*		*	*	*	*	*	*	*	*	*
	Measurement uncertainty evaluation of weighbridge calibration using substitution	2400	1	*	*		*	*	*	*	*	*	*	*	*
	Verification of weighbridge using substitution method (ASEAN Guidelines)	4000	1				29		3		6		15		
	Verification of Non-Automatic Weighing Instruments, NAWI (excluding Weighbridge) - ASEAN Guidelines	4000	1				30		4		7		16		
	Determination of pre-packaged products according to ASEAN Common Requirements	5500	3					4				28			
								5				29			
								6				30			
	Good measurement practice of weighing balances	2500	1	*	*		*	*	*	*	*	*	*	*	*
	Calibration of gauge block using gauge block comparator	2500	1	19			16			20	13	28	26	18	
	Measurement uncertainty evaluation for calibration of gauge block	1700	1	20			17			21	14	29	27	19	
	Calibration of micrometer	2000	2	21	9		13	4	3	6	3	7	5	24	1
				22	10		14	5	4	7	4	8	6	25	2
	Calibration of caliper	2000	2	26	11		15	6	8	8	5	9	7	11	3
				27	12		16	7	9	9	6	10	8	12	4

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Mechanical	Calibration of dial gauge	2000	2	28	5	R A M A D H A N & S Y A W A L	22	11	10	13	10	1	12	16	7
				29	6		23	12	11	14	11	2	13	17	8
	Calibration of height gauge	2000	2	20			20	13	22	15	12	3	14	18	9
				21			21	14	23	16	13	4	15	19	10
	Measurement uncertainty evaluation for calibration of dimensional small tools	1700	1	23			24	15	12	17	7	11	16	20	18
	Calibration of ring gauge/plug gauge (contact method)	2000	1	20			23	8		22		8	5	26	15
	Calibration of threaded ring gauge/plug gauge (contact method)	2000	1	21			27			23	10	9	6	27	16
	Measurement uncertainty evaluation for calibration of ring gauge/threaded ring gauge	1700	1	22			28			24	11	10	7	11	17
	Calibration of surface roughness specimen/portable surface roughness tester	2000	1	28			29		4	20	12	28	7	24	14
	Measurement uncertainty evaluation for calibration of surface roughness specimen	1700	1	29			30		5	21	13	29	8	25	15
	Calibration of line scale (measurement of ruler/tape)	2000	1	21	10		23	13	24	20		3	14	26	16
	Measurement uncertainty evaluation for calibration of line scale	1700	1	22	11		24	14	25	21	3	4	15	27	17
	Calibration of angle instruments	2000	1	28	5		20	4	22	22	4	7	1	4	9
	Measurement uncertainty evaluation for calibration of angle instruments	1700	1	29	6		21	5	23	23		8	2	5	10
	Measurement uncertainty evaluation for calibration of length & dimensional instruments	2700	1	30			24	15	26	10	14	30	9	6	4

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Mechanical	Fundamental of pressure measurement instrument calibration	4600	3	*	*	R A M A D H A N & S Y A W A L	20	*	*	27	*	*	20	*	*
				*	*		21	*	*	28	*	*	21	*	*
				*	*		22	*	*	29	*	*	22	*	*
	Comprehensive measurement uncertainty evaluation for pressure instrument	2700	1	*	*		23	*	*	30	*	*	23	*	*
	Verification of sphygmomanometer	2700	1	*	*		13	*	*	20	*	*	29	*	*
	Calibration of force measuring devices	2700	2	27	9		27	5	8	27	17	21	12	17	8
				28	10		28	6	9	28	18	22	13	18	9
	Measurement uncertainty evaluation of force calibration	1300	1	29	11		29	7	10	29	19	23	14	19	18
	Competency Program on Weighing Balance Calibration	RFQ	3	*	*		*	*	*	*	*	*	*	*	*
				*	*		*	*	*	*	*	*	*	*	*
				*	*		*	*	*	*	*	*	*	*	*
	Competency Program on Caliper Calibration	RFQ	2	*	*		*	*	*	*	*	*	*	*	*
				*	*		*	*	*	*	*	*	*	*	*
	Competency Program on Calibration of Pressure Measurement Devices	RFQ	3	*	*		*	*	*	*	*	*	*	*	*
				*	*		*	*	*	*	*	*	*	*	*
				*	*		*	*	*	*	*	*	*	*	*

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Themophysical	Measurement and calibration of liquid-in-glass thermometer	1500	1	19	9	R A M A D H A N & S Y A W A L	20		22		12		26	26	
	Measurement uncertainty evaluation for calibration of liquid-in-glass thermometer	1300	1	20	10		21		23		13		27	27	
	Measurement and calibration of industrial platinum resistance thermometer	1500	1	21	11		22		24		17		5	2	
	Measurement uncertainty evaluation for calibration of industrial platinum resistance thermometer	1300	1	22	12		23		25		18		6	3	
	The understanding of temperature measurement	1450	1	26			24			10		23	7	4	
	Theory & principle in resistance thermometry	1450	1	27			27			13		24		5	
	Theory & principle in liquid in glass thermometry	1450	1	28			28			14		25		6	
	Calibration of refrigerators and freezers	1500	1	21	2		13		8		27		12	16	
	Measurement uncertainty evaluation of calibration of refrigerators and freezers	1300	1	22	3		14		9		28		13	17	
	Measurement and calibration of radiation thermometer	1500	1	13			15		10		3		19	23	
	Measurement uncertainty evaluation for calibration of radiation thermometer	1300	1	14			16		11		4		20	24	
	Measurement and calibration thermocouple thermometry	1500	1	15	4		20	19	29	30	5	3	21	11	1
	Measurement uncertainty evaluation of thermocouple thermometry	1300	1	16	5		21	20	30	31	6	4	22	12	2
	Calibration and testing of heat enclosure	1500	1	19	2		22	21	25	2	10	7	1	18	3
	Measurement uncertainty evaluation of heat enclosure	1300	1	20	3		23	22	26	3	11	8	2	19	4

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Themophysical	Measurement and calibration of humidity	1500	1	13	10	R A M A D H A N & S Y A W A L	21	19	10	15	3	21	26	10	7
	Uncertainty evaluation of humidity measurement	1300	1	14	11		22	20	11	16	4	22	27	11	8
	Measurement and calibration of hydrometer	1500	1		4				24			9			
	Measurement uncertainty evaluation for calibration of hydrometer	1300	1		5				25			10			
	Measurement and calibration of viscosity	1500	1	19			14	5	25	2	10	7	15	25	2
	Measurement uncertainty evaluation of viscosity calibration	1300	1	20			15	6	26	3	11	8	16	26	3
	Measurement and calibration of density meter	1500	1				8				5		7		
	Measurement uncertainty evaluation for calibration of density meter	1300	1				9				6		8		
	Measurement and calibration density of coriolis flow meter	1500	1					14						27	
	Competency Program on Heat Enclosure	RFQ	3	*	*		*	*	*	*	*	*	*	*	*
	Competency Program on Calibration of Thermocouple	RFQ	3	*	*		*	*	*	*	*	*	*	*	*
	Competency Program on Temperature Indicator by Electrical Simulation	RFQ	2.5	*	*		*	*	*	*	*	*	*	*	*
Proficiency Testing /Measurement Audit (PT/MA)	Workshop on PT Program (specific artefact)	1500	1	*	*		*	*	*	*	*	*	*	*	*
	Theory, Measurement Uncertainty & Practical for Calibration of PT/MA Artefact	1500	1	*	*		*	*	*	*	*	*	*	*	*

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REGISTRATION FORM

No	MSP Title	Name of participant	Company	Designation	Email/Tel No



