

METCERT TIME & FREQUENCY METROLOGY APPLICATION FORM

NLA-MC-F-G10-01



G10-M REGISTRATION as a METROLOGIST

(Time & Frequency – T&F)

Practical Calibration Tasks & Requirements.

Number of Years of Experience in Time & Frequency Metrology		Please Submit Evidence	
Registered as a "Trainee Metrologist" (If yes state registration number)			
Holder of a SANAS Time & Frequency Certificate of Competence	Y	N	
Successful completion of NLA Time & Frequency Exam	Y	N	

Evidence of successfully completed tasks in a laboratory:

Reference to ONE (1) Calibration per task to be entered.
 Reference to participation in ONE (1) ILC is mandatory.
 Data entered shall preferably not be older than 5 years.
 (When supplying evidence of tasks/certificates, please use number on left below to identify the task/certificate).

No	Calibration Tasks (Add additional supporting tasks if desired)	Equipment Model	Cert No	(for Office use only)	Participated ILC (Details or Report No.)	(for Office use only)
At least five items are required, with at least one item per block (A, B & C)						
A1	Calibration of the Frequency Generator or Source					
A2	Generation of a Frequency with known Accuracy					
A3	Calibration of Tachometers					
B1	Calibrate a Time Interval Source					
B2	Generate a Time Interval with known Accuracy					
B3	Calibration of Stopwatches					
C1	Calibration of Frequency Counter					
C2	Calibration of a Function Generator					
C3	Calibrate the Phase Angle between two Periodic Waves					
C4	Measure the rise- or fall-time of a pulse					
C5	Calibrate an Oscilloscope					

► Data including a detailed calculation of the Uncertainty of Measurements must be submitted for at least one of the certificates submitted for evaluation ◀

I hereby declare that the above information is a true reflection of my experience.		Application is supported by Head of Lab or Registered Metrologist	
Name:	Signature:	Name:	Signature:
Date:		Position:	



METCERT TIME & FREQUENCY METROLOGY APPLICATION FORM

NLA-MC-F-G10-01

G10-E REGISTRATION as an <u>EXPERT METROLOGIST</u>					(Time & Frequency – T&F)						
Practical Calibration Tasks & Requirements.					Evidence of successfully completed tasks in a laboratory: Reference to ONE (1) Calibration <u>per task</u> to be entered. Reference to participation in <u>ONE</u> (1) ILC is mandatory. Data entered shall preferably not be older than <u>5 years</u> . (When supplying evidence of tasks/certificates, please use number on left below to identify the task/certificate).						
Number of Years of Experience in Time & Frequency Metrology										Please Submit Evidence	
Registered as a "Time & Frequency Metrologist" <i>(If yes state registration number)</i>											
Successful completion of NLA Time & Frequency Course Exam			Y	N							
All tasks for T&F Metrologist Level (See Form G10-M) completed			Y	N							
No	Calibration Tasks. (Add additional supporting tasks if desired)				Equipment Model	Cert No	<i>(for Office use only)</i>	*Participated ILC <i>(Details or Report No.)</i>	<i>(for Office use only)</i>		
	The following 4 tasks are required:										
1	Demonstrate the maintenance (monitoring) of a Frequency Standard using GPS, determine and apply corrections to provide Frequency Traceability in a laboratory										
2	Calibration and characterisation of a Local, Fixed Frequency, Standard - (Oscillator)										
3	Calibration of a High accuracy Frequency Counter										
4	Calibrate a High Accuracy Time Interval Source - (Uncertainty $\leq 1 \mu s$)										
	At least 2 of the following 3 tasks are required:										
5	Oscillator phase calibration										
6	Calibrate an Oscilloscope with a Bandwidth >250 MHz										
7	Calibrate a Pulse for Rise and Fall Time - (Characterization)										
8											
9											
10											
► Data including a detailed calculation of the Uncertainty of Measurements must be submitted for at least one of the certificates submitted for evaluation ◀											
I hereby declare that the above information is a true reflection of my experience. Name: _____ Signature: _____ Date: _____					Application is supported by Head of Lab or Registered Expert Metrologist Name: _____ Signature: _____ Position: _____						