



| G02-M REGISTRATION as a <u>METROLOGIST</u> | | | | | (Electrical - DCLF) | | | | | | |
|---|--|--|---|---|--|---------|------------------------------|---|------------------------------|------------------------------|--|
| Practical Calibration Tasks & Requirements. | | | | | Evidence of successfully completed tasks in a laboratory: Reference to ONE (1) Calibration <u>per</u> task to be entered. Reference to participation in <u>ONE</u> (1) ILC is mandatory. Data entered shall preferably not be older than <u>5</u> years. (When supplying evidence of tasks/certificates, please use number on left below to identify the task/certificate). | | | | | | |
| Number of Years of Experience in Electrical - DCLF Metrology | | | | | | | | | | Please Submit Evidence | |
| Registered as a "Trainee Metrologist" <i>(If yes state registration number)</i> | | | | | | | | | | | |
| Holder of a SANAS Electrical - DCLF Certificate of Competence | | | Y | N | | | | | | | |
| Successful completion of NLA Electrical - DCLF Exam Part 1 | | | 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 5 tasks are required: | | | | | | | | | | | |
| 1 | Voltage and Current Meters AC and DC | | | | ≤ 4½ Digital Multimeter | | | | | | |
| 2 | Voltage and Current Sources AC and DC | | | | Typically ± 100 ppm | | | | | | |
| 3 | Resistance Meters | | | | ≤ 4½ Digital Multimeter | | | | | | |
| 4 | Resistances Sources using Volt-drop Method | | | | Typically ± 200 ppm | | | | | | |
| 5 | Resistances Sources substitution Method | | | | Typically ± 500 ppm | | | | | | |
| At least 3 of the following 6 tasks are required: | | | | | | | | | | | |
| 6 | Calibration of Insulation Testers | | | | Typically ± 3% | | | | | | |
| 7 | Calibration of Current Clamp Meters | | | | Typically ± 3% | | | | | | |
| 8 | Calibration of High Voltage Probes | | | | Typically ± 3% | | | | | | |
| 9 | Calibration of Capacitance Meters | | | | Typically ± 3% | | | | | | |
| 10 | Calibration of Inductance Meters | | | | Typically ± 3% | | | | | | |
| 11 | Calibration of Power & Energy Meters (At unity and one other PF) | | | | Typically ± 5% | | | | | | |
| ▶ 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 Metrologist Name: _____ Signature: _____ Position: _____ | | | | | | |



| G02-E REGISTRATION as an <u>EXPERT METROLOGIST</u> | | | | | (Electrical - DCLF) | | | | | | |
|---|--|--|--|---|---|----------------|------------------------------|--|------------------------------|------------------------------|--|
| Practical Calibration Tasks & Requirements. | | | | | Evidence of successfully completed tasks in a laboratory: Reference to ONE (1) Calibration <u>per</u> task 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 Electrical - DCLF Metrology | | | | | | | | | | Please Submit Evidence | |
| Registered as a "Electrical - DCLF Metrologist" (If yes state registration number) | | | | | | | | | | | |
| Successfully completion of NLA Electrical - DCLF Exam Part 2 | | | Y | N | | | | | | | |
| All tasks for Electrical – DCLF Metrologist Level (See Form G02-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 8 tasks are required: | | | | | | | | | | | |
| 1 | Voltage Meters (AC and DC) | | ≥ 6½ Digital Multimeter | | | | | | | | |
| 2 | Current Meters | | Typically ± (10 ppm DC & 50ppm AC) | | | | | | | | |
| 3 | Voltage Sources (AC and DC) | | Typically ± (10 ppm DC & 50ppm AC) | | | | | | | | |
| 4 | Current Sources (AC and DC) | | Typically ± (50 ppm DC & 500ppm AC) | | | | | | | | |
| 5 | Resistance Meters | | ≥ 6½ Digital Multimeter | | | | | | | | |
| 6 | Capacitance Sources | | Typically ± 0,05% | | | | | | | | |
| 7 | Inductance Sources | | Typically ± 0,05% | | | | | | | | |
| 8 | LCR Meters | | Typically ± 0,05% | | | | | | | | |
| At least 2 of the following 4 tasks are required: | | | | | | | | | | | |
| 9 | Oscilloscopes | | Voltage / Time base / Bandwidth Typically ± 0,5% | | | | | | | | |
| 10 | Basic Frequency Measurements | | Typically ± 50ppm | | | | | | | | |
| 11 | Power & Energy AC & DC (At Unity PF and one other PF) | | Typically ± 0,05% | | | | | | | | |
| 12 | Electrical Simulation TC & RTD (Using Internal & External CJC) | | Typically ± 0,02% | | | | | | | | |
| ▶ 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: _____ | | | | | | |