

New Calibration Partnership with National Instruments

The Instrument Calibration Centre (ICC) of ST Electronics has been selected as the calibration services partner of National Instruments (NI). NI has a fast-growing market in the Asia Pacific region and was looking at forging a partnership with a certified metrology laboratory to provide detailed calibration services in the region. ICC was selected as the calibration services partner because of its dedication towards metrology as a core business, and for its fast, reliable and certified calibration services.



NI modular instruments

Modular Instruments Require Calibration

NI produces modular instruments that are revolutionary in terms of design, control and flexibility, as compared to traditional test and measuring instruments.

These modular instruments, although very different from traditional test and measuring instruments in appearance, function in the same manner. The accuracy of modular instruments, like traditional test and measuring instruments, will drift over time. As time progresses, the value of



measurement would drift and these modular instruments would no longer be able to provide guaranteed measurement results. At this point, these modular instruments would require calibration and adjustment to allow them to function accurately as per their original specifications.

Modular Instruments Calibration Set-up

ICC performs automated calibration and adjustment on NI modular instruments to reduce turn-around time and human error. Calibration is performed according to the calibration setup and procedure recommended by NI.

The setup relies on a well maintained set of high accuracy calibration standards to calibrate the different categories of modular instruments.

During the calibration setup implementation phase, ICC worked closely with NI Singapore and NI USA to overcome the technical challenges in setting up this new capability. The fact that calibration engineers had prior working experience in modular instruments

is indeed an advantage to this partnership.

ICC maintains a close partnership with NI to ensure that its calibration capability development keep pace with the fast development in modular instrumentation of NI. As a calibration services partner of NI, ICC will be provided with the latest calibration methods and procedures of the newest NI modular instruments available in the market.

Modular Instruments Calibration Services

As a new calibration service partner of NI, ICC has developed calibration capabilities for various modular instruments. Below are some of the modular instruments which ICC can calibrate:

- PCI/PXI digital multimeters
- PCI/PXI DAQ cards
- PCI/PXI Dynamic Signal Acquisition (DSA) cards
- PCI/PXI Digitiser cards
- PCI/PXI RF cards

ICC can provide customers with timely, quality calibration, including the following as part of the calibration:

- Test results including measurement uncertainty
- Before and after adjustment calibration data, where applicable
- SINGLAS certification, where applicable
- Delivery services to and from customers' premise

For more information, contact Lee Hon Choon at (65) 6413 1901 or email: leehc@stee.stengg.com