






# AL MAHASIN CALIBRATION DEVICES L.L.C.

- ▶ ISO / IEC 17025:2017 Accredited
- ▶ Energy Meter Calibration
- ▶ Authorized Repair Centre
- ▶ Measuring Systems And Components
- ▶ Internationally Recognized Calibration Services



# INDEX

TITLE	PAGE
 MD's MESSAGE	3
 INTRODUCTION	4
 OUR EXPERTISE	5
 OUR LABS	6 to10
 CLIENTS	11

# MANAGING DIRECTOR'S MESSAGE

We have walked in your shoes and built our calibration business accordingly. Since 1988, our parent company, **Al Mahasin Elect. Cont. Co. LLC., (AMEC)** is in the field of electrical engineering and we have relied on third - party laboratories for calibration and maintenance of our equipments. Over the years we experienced wide variances in service from a variety of labs, some are average and some are sub standard too often, we suffered through long delays, unprofessional service, inconsistent pricing, and poor documentation.

Not only were we faced with the inconvenience of delay of equipments but this also jeopardized our critical requirements at the site which in turn had financial implications to our critical project works. And at other times the same equipment would take double the time for calibration and with no clear communication, lack of transparency when it comes to repairs which are at times unsatisfactory.

It was clear that the labs we had tried, while probably competent on the bench, but had limited idea of the circumstances in the field. In 2014, we decided we could do better. Using the strategies we had seen work and modifying those that didn't, we followed the guidelines of ISO/IEC 17025: 2017 accreditation and established **AMCAL**.

Today, we operate out of Sharjah on the philosophy; "Under Promise, Over Deliver". **AMCAL's** team is composed of highly qualified and experienced engineers with several years of experience in instrumentation, calibration projects maintenance and consultancy. Here are a few other reasons why you should choose **AMCAL**:

- ▶ ISO/IEC 17025:2017 accredited
- ▶ ISO 9001:2015, ISO 14001:2015 & BS OHSAS 18001:2007 certified
- ▶ NIST traceable calibrations
- ▶ ISO/IEC 17025:2017 documentation with measurement of uncertainty calculations
- ▶ Paper/electronic documentation
- ▶ Calibration schedule management with equipment due reminders
- ▶ 4 to 1 typical test accuracy ratio
- ▶ 24/7 On-line access to calibration history and reports
- ▶ Efficient turnaround time
- ▶ Free evaluation services
- ▶ On-site services
- ▶ Pick up / delivery available
- ▶ Among the most competitive pricing in industry
- ▶ Single-source scheduling and coordination for single and/or multiple sites
- ▶ Maximum equipment up-times and productivity
- ▶ Avoidance of shipping costs and packaging time
- ▶ Direct communication between equipment user and calibration engineer/ technician
- ▶ Emergency on-site calibration services available

Because we have shared the same challenges in the process control world, we relate to your needs and respond accordingly. You will know this as soon as you contact us with your needs.

**NASIR KHAN**  
MANAGING DIRECTOR

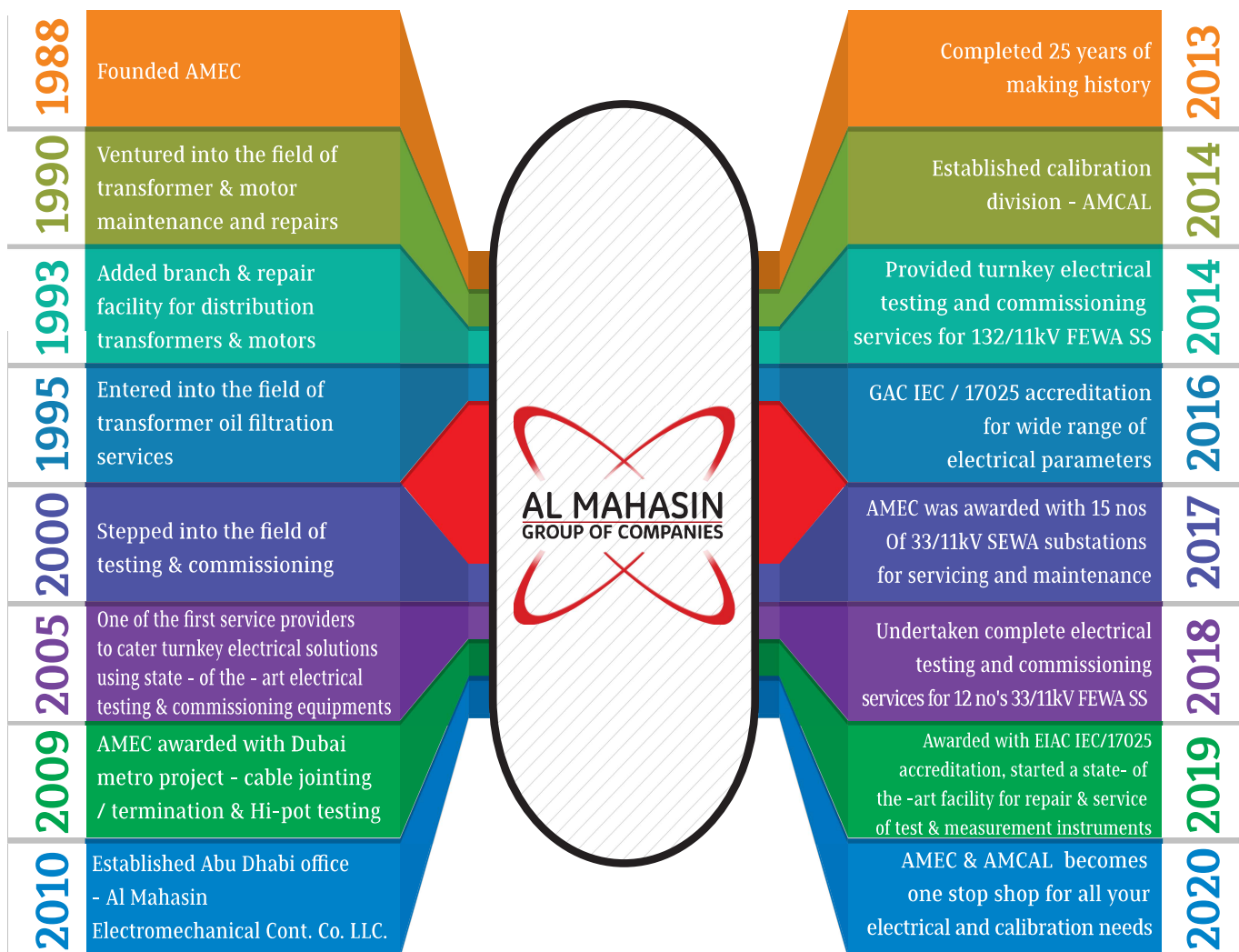
# INTRODUCTION

**AMCAL** focuses on realizing defined projects within the agreed quality, time and cost requirements. We offer a wide range of repair and calibration services that can save you the time and money of sending your test and measurement equipment to various OEM's.

**AMCAL's** team is composed of highly qualified and experienced engineers with several years of experience in both instrumentation and calibration project maintenance and consultancy. Our engineers can bring the laboratory to you eliminating production downtime or you can send your items to us. Some of our other capabilities: Electrical Calibration, Pressure Calibration, Heat Treat/Temperature Surveys, Mass Calibration, Torque Calibration and Dimensional Calibration.

At **AMCAL**, we believe that quality and value are essential to our clients. Because of our commitment to quality, we are one of the few calibration labs in Sharjah to attain integrated management system for ISO 9001:2015, ISO 14000:2015, BS OHSAS 18001:2007 certification along with ISO/IEC 17205:2017 accreditation which is a terrific milestone not only for us but also for our customers.

## AL MAHASIN'S MILESTONES



## OUR EXPERTISE

We are having UAE's largest and most diverse calibration and repair laboratory accredited with ISO/IEC 17025:2017 and certified to ISO 9001:2015 standards. We also act as renting & supplying hub with a strong foothold in the UAE.



Pressure



Temperature



Electrical



Mass/Balance



High Voltage



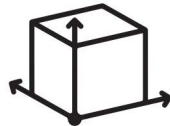
RF



Load



Gas



Dimensional



Torque



Medical



Flow



Thermography



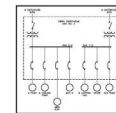
Volume



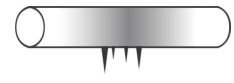
Load test



Repair



Panel Testing



Pipe Freezing

## OUR SERVICES



Onsite & in-house calibration services



Energy meter calibration services  
(online & offline)



Authorized repair & service centre



Onshore & offshore services



Rental of test & measurement  
instruments



Supply of test & measurement



Technical manpower supply



Aviation

# ELECTRICAL

AMCAL is ISO/IEC 17025:2017 accredited lab with the capability of source & measurement of all electrical parameters. The facility is equipped with most modern calibration standards to carry out various electrical & electronic tests. The lab also have state of the art measuring instruments with the best measurement capability and for determination of uncertainty.

- ▶ Panel Meters
- ▶ AC/DC Dielectric Test Sets
- ▶ Relay Test Sets
- ▶ Clamp-on Meters
- ▶ Energy Meters
- ▶ RCD Testers
- ▶ Continuity Testers
- ▶ Harmonic Analyzers
- ▶ Circuit Breaker Analyzers
- ▶ Multimeters
- ▶ Current Transformers
- ▶ Welding Machines
- ▶ Megohmmeters
- ▶ Voltage Transformers
- ▶ CT Analyzers
- ▶ Oil Test Set
- ▶ Primary Current Injection Test Sets
- ▶ Tan Delta Testers
- ▶ Flash Testers
- ▶ Secondary Current Injection Test Sets
- ▶ Cable Locators
- ▶ Power Factor Meters
- ▶ ESD Mat / ESD Testers
- ▶ Portable Appliance Testers
- ▶ Cable Sheath Fault Locators
- ▶ Electrical Transducers & Sensors
- ▶ Earth Resistance Meters
- ▶ AC/DC Hi - Pot Test Sets
- ▶ Phase Sequence Indicators
- ▶ Harmonic Analysis
- ▶ High Voltage Insulation Testers
- ▶ Micro Ohmmeters
- ▶ Pat testing
- ▶ Thermography testing
- ▶ VLF Test Set

# ENERGY METER

Device that measures the amount of electric energy consumed by residence, business or an electrically powered device.

What would happen if you are having a fault in your Energy Meter?



# PRESSURE

- ▶ Pressure Gauges
- ▶ Vacuum Gauges
- ▶ Pressure Transmitters
- ▶ Pressure Switches
- ▶ Pressure Recorders
- ▶ Hydraulic Crimping Tools
- ▶ Magnehelic Gauges
- ▶ Safety Valves
- ▶ Control Valves
- ▶ Transducers
- ▶ Transmitters
- ▶ Test Gauges
- ▶ Indicators & Controllers
- ▶ Deadweight Testers
- ▶ Hydraulic Jacks
- ▶ Pressure Modules
- ▶ Manometers / Barometers
- ▶ Pressure Calibrators



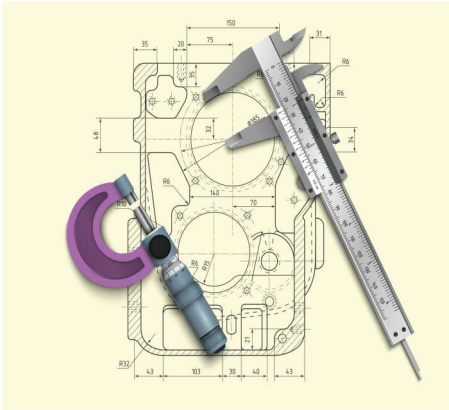
# TEMPERATURE

- ▶ Thermometers
- ▶ Dry Blocks
- ▶ Controllers
- ▶ Oil Bath Kit
- ▶ Furnaces
- ▶ RTDs
- ▶ Temperature Transmitters
- ▶ Temperature Calibrators
- ▶ Temperature Indicators
- ▶ Digital Indicators & Probes
- ▶ Temperature Survey & Mapping
- ▶ Autoclaves, Ovens



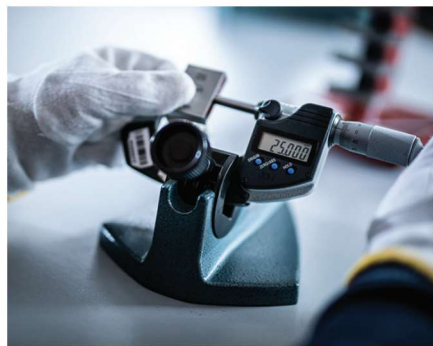
- ▶ Refrigerators & Chillers
- ▶ Climatic Chambers
- ▶ Humidity Chambers
- ▶ Hygrometers
- ▶ Glass Thermometers
- ▶ Dry blocks
- ▶ Liquid bath calibrators
- ▶ Data Loggers
- ▶ Infrared Thermometers
- ▶ Muffle Furnaces
- ▶ Hot Cabinets

# DIMENSION



- ▶ Inside / Outside Micrometers
- ▶ Dial Indicators
- ▶ Vernier Calipers
- ▶ Height Gauges
- ▶ Bore Gauges
- ▶ Ultrasonic Thickness Gauges
- ▶ Foil Thickness Gauges
- ▶ Profile Gauges, Pin Gauges,
- ▶ Cam Gauges
- ▶ Coating Thickness Gauges
- ▶ Hardness Testers
- ▶ Steel Rulers, Glass Rulers

- ▶ Measuring Tapes
- ▶ Granite Surface Plates
- ▶ Spirit Level, Angle Blocks
- ▶ Engineering Compasses



# MEDICAL ANALYTICAL

- ▶ Defibrillators
- ▶ Micro Pipettes
- ▶ Burettes
- ▶ Conical Flask
- ▶ Infusion Pump Analyzers
- ▶ Patient Simulators
- ▶ Infusion Pumps
- ▶ SPO2 Analyzers
- ▶ Pulse Oximeters
- ▶ Ear Thermometers



- ▶ Measuring Jars / Cylinders
- ▶ PH, Conductivity, TDS Meters
- ▶ Weighing Scales
- ▶ Test Weights Class F, F1, M, M1
- ▶ Moisture Analyzers
- ▶ Spigmo-manometers
- ▶ Chlorine Analyzers
- ▶ Turbidity Analyzers



# RADIO FREQUENCY

- ▶ Power Meters
- ▶ Dummy Loads
- ▶ Audio Analyzers
- ▶ Spectrum Analyzers-0.1 To 20 Ghz
- ▶ Rf Millivoltmeters
- ▶ Communication Analyzers
- ▶ Directional Couplers
- ▶ Signal Generators-0.1 To 20 Ghz
- ▶ Amplifiers
- ▶ Attenuators - 0.1 To 18.5 Ghz
- ▶ Counters - 0.1 To 20 Ghz
- ▶ Mobile Radio Analyzers
- ▶ Network Analyzers
- ▶ Modulation Meters
- ▶ Watt Meter & Elements
- ▶ Site Analyzers
- ▶ Antenna Testers
- ▶ Function Generators
- ▶ Range Calibrators
- ▶ Handheld Power Meter
- ▶ Pulse Generators
- ▶ RF Power Meters



## GENERAL



- ▶ Luminous Meters / LUX Meters
- ▶ Pneumatic / Hydraulic Wrenches
- ▶ DFT Gauges
- ▶ Sound Level Calibrators & Meters
- ▶ Torque Testers
- ▶ Tachometers
- ▶ Anemometers
- ▶ Torque Transducers & Multipliers
- ▶ Torque Indicators
- ▶ Vibration Meters
- ▶ Crane Scales
- ▶ Torque Spanners
- ▶ Air Flow Meters
- ▶ Platform Weighing Scales
- ▶ Torque Screwdrivers
- ▶ Air Capture Hood
- ▶ Compression & Tensile Load Cells
- ▶ Torque Wrenches

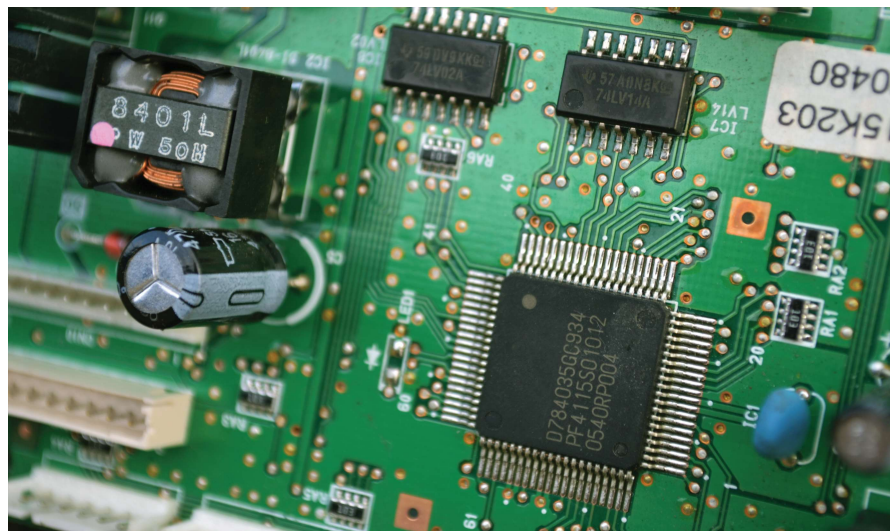
# GAS

- ▶ Gas Analyzers
- ▶ Exhaust Analyzers
- ▶ SF6 Gas Analyzers
- ▶ Fixed Gas Detectors and Alarm systems
- ▶ Personal Gas Detectors
- ▶ Dew-point Meters & Analyzers



# REPAIR

- |  |  |   |
|--|--|---|
| ▶ Digital and Analog Multimeters           | ▶ Cable Sheath Fault Locators          | ▶ Ultrasonic Thickness & Hardness Testers |
| ▶ Clamp Testers                            | ▶ Battery Load Units                   | ▶ Flaw Detectors                          |
| ▶ Earth Resistance Testers                 | ▶ Battery Impedance Testers            | ▶ Pinhole Detectors                       |
| ▶ Insulation Testers                       | ▶ Dead Weight Testers                  | ▶ Holiday Detectors                       |
| ▶ Digital Low Resistance Ohm Meters        | ▶ Pressure Comparators                 | ▶ PWHT Transformers                       |
| ▶ RCD/Loop Testers                         | ▶ Pressure Calibrators                 | ▶ Temperature Chart Recorders             |
| ▶ Micro Ohm Meters                         | ▶ Pressure/Temperature Chart Recorders | ▶ Thermocouple Welding Sets               |
| ▶ Phase Rotation Indicators                | ▶ Dry Block Temperature Calibrators    | ▶ Electrode Baking/Holding Ovens          |
| ▶ PAT Testers                              | ▶ Digital Temperature Calibrators      | ▶ Electrode Quivers                       |
| ▶ Time Domain Reflectometers               | ▶ Documenting Process Calibrators      | ▶ Weighing Scales and Platforms           |
| ▶ Relay Test Sets                          | ▶ Digital mV/mA Calibrators            | ▶ Wired & Wireless Load Cells             |
| ▶ Breaker Analyzers                        | ▶ Portable Gas Detectors               | ▶ Dynamometers                            |
| ▶ Transformer Turns Ratio Test Sets        |  |   |
| ▶ Transformer Ohm Meters                   |  |   |
| ▶ Transformer Winding Resistance Test Sets |  |   |
| ▶ Primary Current Injection Test Sets      |  |   |
| ▶ Secondary Current Injection Test Sets    |  |   |
| ▶ Oil Test Sets                            |  |   |
| ▶ Buried Cable/Pipe Locators               |  |   |
| ▶ AC/DC High Voltage Test Sets             |  |   |
| ▶ Dielectric Test Sets                     |  |   |
| ▶ VLF Testers                              |  |   |



# WHERE QUALITY IS A BENCHMARK

ISO 9001 : 2015



ISO 14001 : 2015



BS OHSAS 18001 : 2007



E'AC ACCREDITATION



GCC ACCREDITATION



AUTHORIZED REPAIR CENTERS



## OUR CLIENTELE





**Testing  
Equipment Rental**



**Transformer  
Oil Handling**



**Electrical  
Maintenance**



**Supply of  
Electrical Equipment**



**AL MAHASIN**  
GROUP OF COMPANIES

**"Empowering the nation since 1988"**



**Rewinding  
Services**



**Engineer Deputation  
Services**



**Electrical  
Testing**



**Erection &  
Commissioning Services**



**AL MAHASIN**  
GROUP OF COMPANIES OVER **25** YEARS OF  
EXCELLENCE



**AL MAHASIN CALIBRATION DEVICES L.L.C.**

Sharjah

P.O Box: 40280,

United Arab Emirates

T +971 6 544 9254

F +971 6 535 9663



\amcalme



\amcalme



\amcalme



[info@amcalme.com](mailto:info@amcalme.com)



**إمكال**  
مركز الإمارات العالمي للاعتماد  
Emirates International Accreditation Center

**083-LB-CAL**

[www.amcalme.com](http://www.amcalme.com)