



Build on our credentials

## Company Profile

[www.acts-int.com](http://www.acts-int.com)



# ACTS Business Principles



**Integrity & Reliability**



**Tangible Value to Customers**



**Commitment to Safety**



**Accuracy & Precision**



**Knowledge & Experience**



**Environmental Responsibility**

**Build On Our Credentials**



# About ACTS

Since its establishment in 1996, ACTS has become a regional reference in construction consultancy services specializing in the materials and geo-engineering fields. ACTS currently operates throughout the Middle East, Africa and Southeast Asia.

The company has witnessed a rapid expansion in its service offerings through five separate, yet complementary divisions: Testing, Inspection, Certification, Engineering Services, and Knowledge & Education.



**Testing**



**Inspection**



**Certification**



**Engineering Services**



**Knowledge & Education**

ACTS fully equipped and modern laboratories, well-trained staff, and customer centric services have been awarded high caliber accreditations such as the ISO/IEC 17025:2017 and ISO 17020:2012. The company's management systems are also certified for ISO 9001:2015, ISO 14001:2015, and ISO 45001:2018.

ACTS is also the local sponsoring group of the American Concrete Institute (ACI) for its certification programs in the Middle East & Africa. The company provides a large array of training programs in asphalt and concrete technologies and prepares trainees to become ACI Certified.

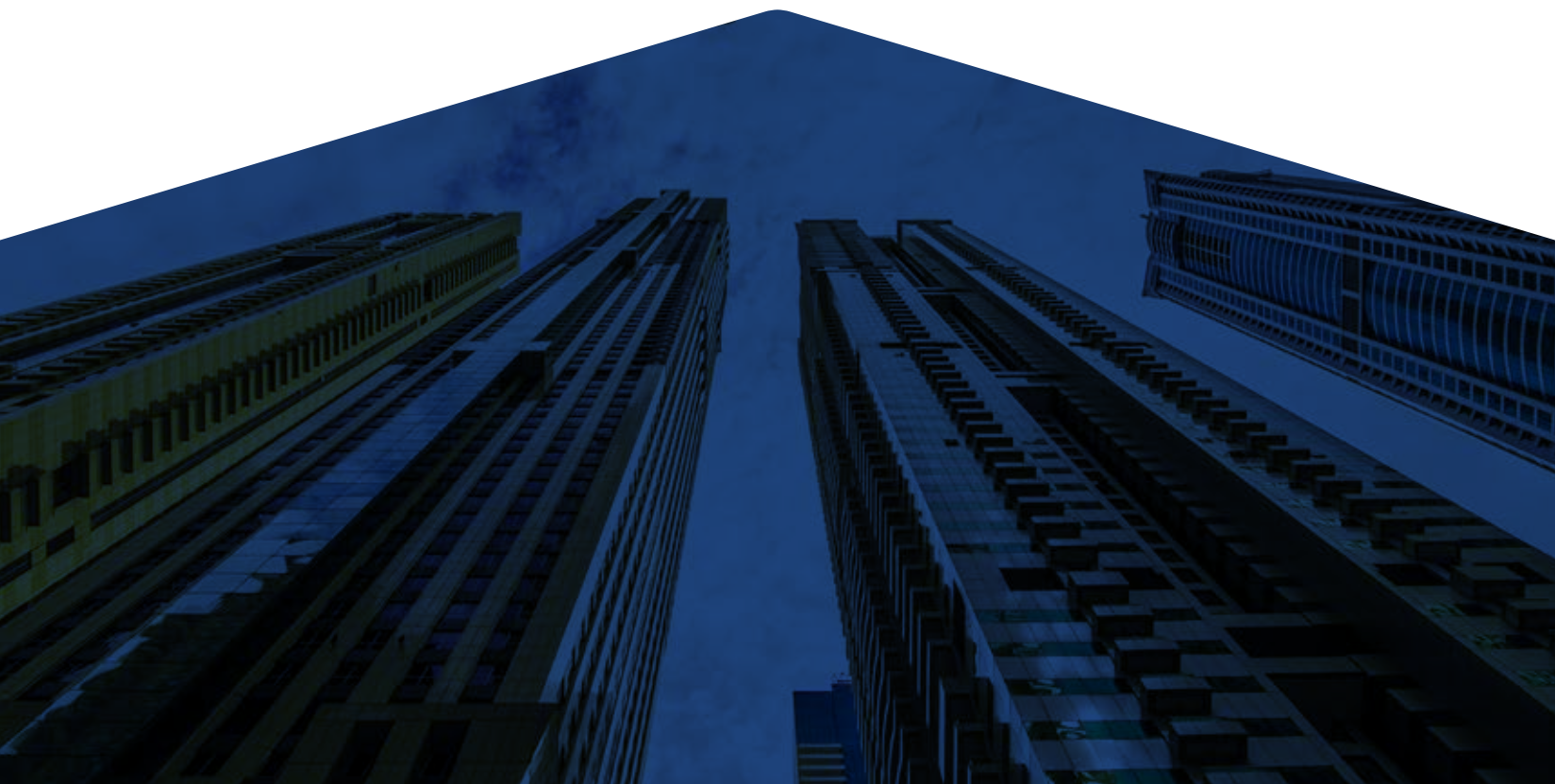
Additionally, ACTS has become the one-stop provider of international codes and standards for being the representative of IHS, ASTM, BSI, IEEE, and other global standard development organizations.

## Company Vision

To be an international leader in providing knowledge-based services to the construction industry, and become recognized as the preferred, credible, and reliable third party partner in testing, inspection, certification and engineering services.

## Company Mission

To provide the construction industry with the information and professional services required to improve the understanding and usage of construction materials; to assist relevant stakeholders in achieving durable and cost effective construction; and to elevate the quality of the construction industry by bringing technological innovations in our fields of work.



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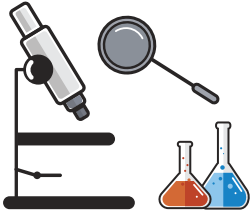




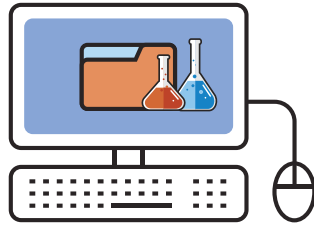
# Testing

ACTS leading market role is the provision of third party testing in major construction projects; producing reliable test data, and eliminating conflict of interests. ACTS testing operations include:

## Well Equipped Laboratories



## Advanced Laboratory Information Management System



## Qualified & Experienced Staff



ACTS has the capability of mobilizing, installing and managing full-scale site laboratories for quality control and assurance. These laboratories can be quickly equipped to carry out all the physical and chemical testing required for a major construction job, with continuous technical back-up from the central laboratories.

ACTS continuous involvement in ACI and ASTM committees and its relation with the Asphalt Institute has equipped the company with the ability to provide knowledge supported services in material testing:

## Construction Materials

- Cement
- Concrete
- Aggregates
- Rock
- Soil
- Steel
- Water for Concrete
- Admixture
- Cementitious Materials
- Asphalt/Bitumen

## Non Destructive Testing & Evaluation

- Sonic & Ultrasonic Pulse Velocity Testing
- Slab Impulse Response
- Impact Echo
- Spectra Analysis of Surface Waves
- Ground Penetrating Radar (GPR)

## Fire Testing

- Fire Resistance Testing
- Reaction to Fire Testing
- Fire Sealant Site Inspections

## Environmental Testing

- Soil Analysis
- Water & Wastewater Analysis
- Air Quality Testing & Monitoring
- Noise Monitoring

## Food Testing

- Microbiology
- Residues & Contamination Testing
- Nutrition Analysis
- Water Testing



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 **ACTS**  
ADVANCED CONSTRUCTION  
TECHNOLOGY SERVICES  
*Build on our credentials*





# Inspection

## Construction Quality Control & Inspection

Our team of specialized engineers are devoted to helping our clients implement project specifications cost-effectively and understand the regulations, requirements, certifications, and best practices that lead to quality construction. The years of experience working on large scale and complex projects allow us to bring significant value to any construction project. We provide a comprehensive range of consultancy and inspection services for concrete and steel materials including:

- Inspection & oversight of the construction process to ensure procedures & materials comply with plans & specifications
- Materials properties, service life assessment and performance studies
- Determination of failure modes and recommendations for repair and maintenance
- Contractor's activity inspection and documentation
- Daily inspection report preparation
- Interpretation of drawings and specifications and analyze deviations
- Contractor's schedule monitoring
- Assistance with change order review and completion
- Cost & Material Consumption Audit
- Quality & Safety Audit
- Preventing / Resolving Non-Conformity Reports (NCRs)

Our Inspection services are complemented by Offsite lab testing and destructive and non-destructive testing such as:

- Spectral Analysis of Surface Waves (SASW)
- Ground Penetrating Radar
- Impact Echo Testing
- Ultrasonic Pulse Velocity (UPV)



**Our specialized team includes civil, structural, mechanical, and materials engineers all working together to ensure the best possible project outcome.**

## Fire Inspection

ACTS team of highly qualified inspectors ensure the proper installation of firestop systems. We are widely recognized by authorities having jurisdiction (AHJs), and have extensive experience in the inspection of all firestop UL listed systems for construction joints, perimeter joints, membranes and penetrations.

## Metallurgy & Steel NDT

ACTS include a team of metallurgical inspectors and technologists certified as per ASNT, CSWIP, BGAS, and API Programs. This combination of knowledge and certifications gives the inspector a technical edge in thoroughly assessing any project requirements and observations. ACTS also provides the needed destructive and nondestructive testing such as:

- Welding NDT Visual Test (VT)
- Welding NDT Liquid Penetrant Test (PT)
- Welding NDT Magnetic Particle Test (MT)
- Welding NDT Ultrasonic Test (UT)
- Welding NDT Radiographic Test (RT)
- Welding NDT Vacuum Box Test (VBT)
- Welding NDT Phased Array Test (PA)
- Welding Heat Treatment PWHT
- Welding NDT Eddie Current Test (ET)
- Certifying Welders
- Preparing/Reviewing of WPS



## Other Inspection Services

- Glazing & Cladding Inspection Services
- Coating & Painting Inspection Services
- Waterproof Geomembrane Inspections
- Shutdown, Turnaround & Outage Inspection Services
- Above Ground Storage Tanks Inspection Services
- Sound Acoustics Testing Services
- Pipelines Inspection Services
- Pre-construction Site Inspections

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# Certification

## American Concrete Institute Certification

ACTS is the proud local sponsoring group for the American Concrete Institute (ACI) in the Middle East and Africa for its certification programs. ACI certification allows candidates to access many key benefits, namely:

- Internationally recognized credentials
- Opportunity for employment in projects where ACI certification is required

The ACI Certifications that are granted through ACTS in the region are:

- Concrete Field Testing Technician Grade I
- Concrete Construction Special Inspector
- Concrete Transportation Construction Inspector
- Aggregate Testing Technician Level 1
- Aggregate Base Testing Technician
- Concrete Strength Testing Technician
- Concrete Laboratory Testing Technician Level 1
- Concrete Laboratory Testing Technician Level 2
- Shotcrete Nozzleman
- Concrete Flatwork Finisher



American Concrete Institute  
*Always advancing*



## National Ready Mixed Concrete Association (NRMCA) Certifications

### A- NRMCA Plant and Truck Inspection and Certification

ACTS team includes specialized & certified inspectors of the National Ready Mixed Concrete Association (NRMCA), for the certification of ready mixed concrete production facilities. ACTS takes pride in having certified over 300 production facilities around the Middle East and Africa region according to NRMCA.

The inspection of ready mixed concrete production facilities includes the following:

- Material Storage and Handling, including cementitious materials, aggregates, water and admixtures
- Central Mixer, Batching Equipment including scales, weigh batchers, volumetric batching devices, & liquid dispensers
- Batching and ticketing systems, and recorders
- Delivery Fleet including truck mixers and agitators



### B- NRMCA Personnel Certification

ACTS provides the following NRMCA certifications:

- NRMCA Plant Operator
- NRMCA Concrete Field Testing Grade II

## Precast/Prestressed Concrete Institute (PCI)

Founded in 1954, the Precast/Prestressed Concrete Institute (PCI) is the technical institute and trade association for the precast/prestressed concrete structures industry. This certification of plants, personnel, and product erection provides greater assurance to owners, architects, engineers, and contractors that precast concrete components will be manufactured and installed according to stringent industry standards.



### Personnel Certification

PCI - Certified quality control personnel can effectively develop & implement a quality control program. PCI certifications granted through ACTS:

- PCI Quality Control Level 1 & 2





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# Engineering Services

## Geotechnical Engineering

ACTS Geotechnical division consists of a team of geotechnical engineers, geophysicists and geologists equipped with a solid knowhow in a wide range of subsurface conditions. Our facilities and processes utilize the most modern, cost effective and practical techniques for ground investigations and solutions, as well as the most up to date design-aid software.

ACTS Geotechnical Engineering team operates several drilling rigs to perform various types of drilling techniques and in-situ testing for comprehensive subsurface investigation works. All field works are conducted in accordance with ASTM and BSI standards in addition to other industry applicable standards.

In addition, environmental and geophysical surveys are provided through affiliations with American and European world class companies. ACTS main Geotechnical Engineering services include:

- Geotechnical Investigations
  - Borehole Drilling
  - CPT Testing
  - Borehole Geophysical Surveys (P-S logging, acoustic televiewer, crosshole seismic and others)
  - Borehole in-situ tests (pressuremeter, Lugeon, SPT and others)
- Geotechnical Engineering and Design
- Geotechnical Consultancy and Supervision
- Probe Drilling, Diagraphy Drilling and Grouting of Cavities
- Foundation Inspection and Testing
- Geophysical Surveys for Utility Mapping, Cavity Mapping, Strata & Geology Mapping
- Geophysical Surveys Offshore (i.e. Bathymetric Surveys)
- Pavement Assessment and Non-destructive testing (FWD, RSP)
- Runways Assessment and Non-destructive testing (HWD – PCN determination)



## Structural Assessment

ACTS consultancy team is comprised of concrete technologists and structural engineers who provide consulting services for condition assessment of existing structures. The structural assessment is done to determine how reliable the existing structure is able to carry current and future loads, and to assess its performance against its functional requirements for safety, durability, serviceability and appearance during its service life.

Equipped with the latest state-of-the-art equipment and service life prediction software, we provide the following:

- Structural Health Monitoring for Various Infrastructures (Bridges, Towers, Piles)
- Visual Condition Survey and Defects Mapping
- Non-Destructive Testing and Evaluation for Concrete Integrity
- Corrosion Activity and Rate for Embedded Steel Reinforcement by Linear Polarization Resistance (LPR) Technique
- Detection of Embedded Steel Reinforcement and Concrete Cover by High-frequency Ground Penetrating Radar
- Concrete Coring and Laboratory Testing
- Concrete In-Situ Strength Evaluation
- Durability Assessment and Service Life Prediction by Computer Models
- Structural Evaluation and Design Review
- Materials Repair and Structural Retrofitting Consultancy Services
- BOQ and Specifications for Repair Operations
- Slab and Bridge Load Testing

## Environmental Impact Assessment

ACTS conducts Environmental Impact Assessment Reports and Environmental Monitoring Plans to evaluate the potential environmental impacts of a proposed project or development and to propose measures to mitigate the negative impacts. EIA reports are prepared by a specialized team of environmental engineers & specialists that conduct a systematic analysis of the complete project life cycle.



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# Knowledge & Education

## Technical Standards & Solutions (TSSD)

ACTS Technical Standards and Solutions Division (TSSD) holds the world's largest library of updated hardcopy and online collection of technical standards, engineering specifications, codes of practice and regulations pertaining to more than 300 international organizations namely: ASTM, ANSI, AWWA, ACI, AASHTO, BSI, ISO, IEL, ICAO, API and others.

In fact, ACTS is the preferred code and standards supplier of Middle Eastern leading companies and organizations.

TSSD primary role and strength is the creation of network to promote utilization of standards and codes application in day to day activities. We also help government entities and large corporations develop specific engineering standards for local applications and we share our knowledge, experience and resources through discussions, conferences and educational programs

We strive to share our knowledge and expertise in this area with our customers and our solutions enable them to buy the right product at the right time and from the right source.

## Training

ACTS has currently trained more than 6000 personnel in the Middle East and Africa region and certified more than 5000 personnel in the various ACI certification programs. Our expertise covers training fields such as:

- Field & Laboratory testing, and evaluation of concrete and construction materials
- Concrete advanced technologies and Mix Design
- Understanding of ready mixed concrete
- Construction Practices: mixing, placing, pumping, consolidation, finishing, curing, protection, formwork erection & removal.
- Heat of Hydration analysis, Mass Concrete, Hot and Cold weather concreting
- Inspection of structures and special investigations
- Nondestructive Testing NDT Techniques
- Soils Testing and Evaluation
- Hot Mix Asphalt technology
- Asphalt Superpave
- Fundamentals of Geotechnical Investigations
- ASTM phase 1 & 2 Environmental Site Assessment
- Welding Inspection

## Conferences & Seminars



ACTS is the organizer of the largest concrete conference in the Middle East and Africa region, Future Concrete Construction.

The conference is organized yearly in association with the world renowned societies in concrete like ACI, FIB, ASTM and the UK Concrete Society. Through organization of international conferences such as the Future Concrete Series, and the launching of numerous seminars and awareness sessions, ACTS has become a leader and a reference in quality concreting practices and technologies in the region.



# Contact Us



## Lebanon

**Beirut Head Office**  
Aresco Center 9th Floor,  
Hamra 14-5918 Beirut

**Phone**  
+961 1 753100  
+961 1 753200

**Beirut Laboratory**  
Khalife Bldg, Georges Assi St.,  
Hamra, 14-5918 Beirut

**Phone**  
+961 1 737 222  
+961 1 737 400



## Saudi Arabia

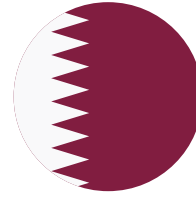
**Jeddah Office**  
Al Manar District, Al Samer  
Building #8188 Industrial Area,  
Jeddah 21351

**Phone**  
+966 12 6772983

**Riyadh Office**  
Salah Ad Din Al Ayyubi  
Street, Safa District,  
Riyadh 12851

**Phone**  
+966 11 2701417

**Al Khobar Office**  
Ibn Sina,  
Al Khobar 34627  
**Phone**  
+966 13 8967147



## Qatar

**Doha Office**  
Retaj Business Center,  
3rd Floor, B Ring Road,  
22159 Doha

**Phone**  
+974 44882053

**Doha Laboratory**  
Street 13, Gate 172,  
Industrial Area, 22159 Doha

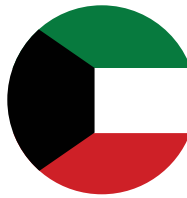
**Phone**  
+974 44601257



## UAE

**Dubai Office**  
Bldg 11, Office 415,  
Dubai Internet City

**Phone**  
+971 43900250



## Kuwait

**Kuwait Office \ Lab**  
Kuwait, Shuwaikh 3rd area,  
Block A, Street 78, Building 79,

**Phone**  
+965 24922092



## Oman

**Main Office \ Lab**  
Al Duqm, Special Economic  
Zone, Al Wusta Governorate

**Phone**  
+968 94782661



## Rwanda

**Kigali Office \ Lab**  
Kigali Special Economic Zone  
C6, Masoro Gasabo District

**Phone**  
+250 738777986



## Mozambique

**Maputo Office \ Lab**  
Av. Samora Machel No353/3 Q.1  
Casa #494 Matola, Cidade Da Matola

**Phone**  
+258 842604449



## India

**Head Office**  
Durocrete House, 'Vimal' 84/1/1,  
Prabhat Road, Pune

**Phone**  
+91 020 24345170







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