

# MIDDLE EAST CONTROL SERVICES

Turnkey Solutions for Electrical • Instrumentation • Controls



E&I SPECIALIST IN OIL & GAS AND INDUSTRIAL PROJECTS



## About Us

Founded in 1995, as an Instrumentation and Controls Service Company, we have grown to become a recognized leader in the Electrical & Instrumentation contracting field, providing and implementing cost effective, high performance solutions engineered to customized client requirements.

We are highly specialized in Electrical, Instrumentation, Automation, Telecommunications and Fire & Safety Systems primarily in the core industrial sector of Oil & Gas catering to specialized requirements especially in Airport Fuel farms and refueling systems.

Our experience complemented with process knowledge and exceptional engineering depth and regional knowledge in the field of electrical systems, process automation, process controls, process instrumentation, project management, validation, documentation services and custom panel design have given us the present edge over our competitors in the regional business. Collectively, we are able to provide the following services related to the Electrical and Instrumentation.

- Project Management and contract administration
- Detailed Design Engineering
- Material Procurement
- Total Installation ,hook up & Commissioning
- Conducting safety audits and preparation of associated reports
- Remedial Works in Full Conformity with Codes of Practice
- Startup and commissioning assistance.
- Documentation Packages to Certifying Authority Requirements
- Manpower Support
- Onsite Training Programs
- Post Commissioning Maintenance Contracts

In the competitive oil & gas industry, safety and efficiency is paramount. We've taken this knowledge and used it to develop customized systems that have improved productivity and increased profits for customers around the world. Specifically, our customers have benefited from the following solutions:

- Tank Farm Automation
- Airport Fuel Farm & Fuel Hydrant & Re-fuelling Systems
- Water & Waste Water Treatment for Oil & Gas Industry
- Pipeline Monitoring & Control
- Multi Product Blending Systems
- Oil Refining & Filtration Plants
- Process Unit Revamp Works



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## Our Vision

To provide quality services which are best in the market for our customers at fair and market competitive prices.

To maintain the highest levels of professionalism, integrity, honesty and fairness in our relationships with our suppliers, subcontractors, business associates and customers.

To provide our employees a working environment, where every employee individually and collectively, can dedicate themselves to providing our customers with exceptional service, extraordinary quality, and professional integrity.

## Our Mission

Committed to be the best in class solution provider in our area of business supported by service and economized, technically sound, customer driven and of the highest quality standards.

## Quality Policy Statement

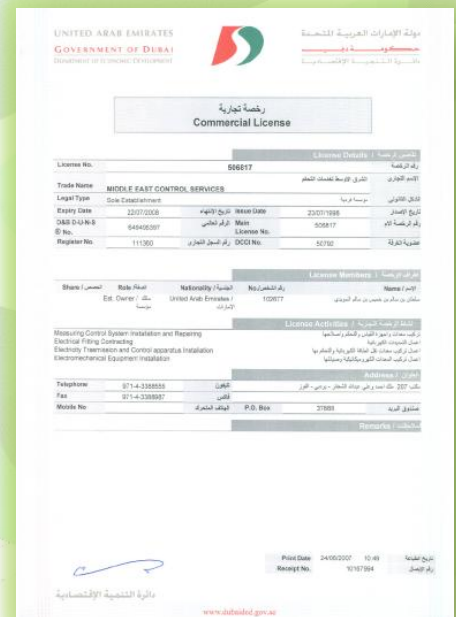
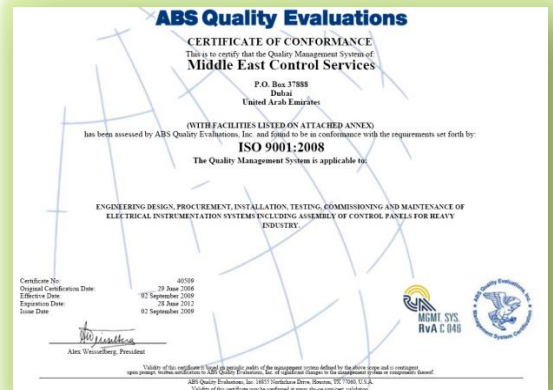
MECS is dedicated to ensuring total Customer Satisfaction through the provision of High Quality Products and Services delivered on time and to specification.

The quality management system within MECS is established to the requirements of ISO 9001:2008.

MECS recognizes the talents of its employees and encourages them to contribute to the continual quality improvement process. Our quality assurance program covers all area of our businesses to the highest level of standards.

## Health, Safety & Environment (HSE)

We believe that 'Safety' is a common responsibility of the Management, supervisory staff and employees of any company. Management will ensure that the equipment provided and facilities are maintained in a safe condition and safe operating procedures are followed. The Employees of MECS are trained and supervised while performing their duties to avoid creating hazards through inadequate knowledge of the risks involved. Our company is committed to protect the environment by reducing wastage of energy and natural resources.



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 All employees are aware of this policy statement and work towards continual improvements at all times.



We have developed a safety policy to meet our own requirements. The policy has been developed using the following broad outlines, i.e.:-  
 1. All injuries must be prevented.  
 2. Management at all levels is responsible for safety and must develop personal responsibility at various levels of management.  
 3. Create a safe working environment and establish safe working procedures/practices.  
 4. Conduct safety programmes for all employees emphasizing advantages of working safely.  
 5. Develop interest and enthusiasm among the employees for safe working.  
 6. Give equal importance to safety as other objectives of the business.

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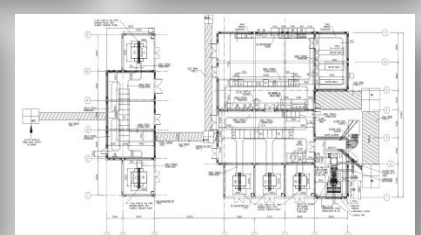
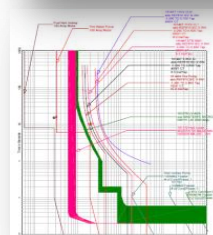
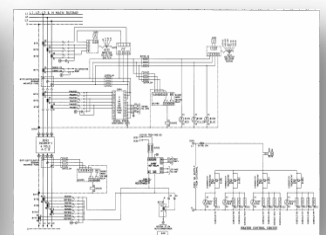
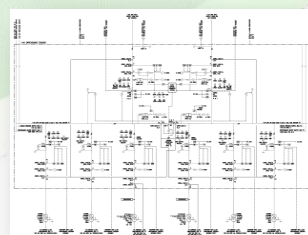
## Electrical Engineering Services

MECS has the expertise and technical capabilities to undertake the following services related to Electrical Engineering, procurement, installation, testing and commissioning of

- HV, MV and LV switchgear
- Ring Main Units
- Power and distribution transformers
- Prime and stand by generator packages, synchronization solutions
- Automatic Transfer and Auto Bus transfer systems.
- Soft starters and VFDs
- MV and LV Motor control centres
- AC, DC UPS systems, frequency converters, inverters etc
- Solar power packages
- MV/LV - power and control cabling
- Cable containment and cable management systems.
- Area, building and street lighting systems controlled by photo cell for automatic operation
- Specialized explosion proof lighting systems for classified areas
- Electrical installations for hazardous area

We also undertake the following services,

- FEED, feasibility and detailed engineering studies
- Relay co-ordination, short circuit, motor starting and power flow studies using advanced software like ETAP/EDSA etc
- Site testing and commissioning of electrical equipments
- Annual periodic and breakdown maintenance contracts
- Specialist manpower supply



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## Controls & Instrumentation Engineering

MECS provides a complete range of Control & Instrumentation Services to the process industries including full "turnkey" solutions comprising of detailed design engineering, procurement, installation and commissioning activities.

The company provides on-site expertise, with particular capability in custom designed and installed electrical control and instrumentation systems.

### Control Systems

- Advanced Process Control Systems (PAS)
- Distributed Control Systems (DCS)
- Programmable Logic Control Systems (PLC)
- HMI/MMI Software Engineering
- Management Information Systems
- PLC based Fuelling control system
- Pipeline Monitoring & Leak Detection Systems
- Electrical Substation Automation
- Compressor Control Systems
- Asset Management Systems

### Instrumentation Systems

- Tank Gauging & Inventory Management System
- Truck Loading/Unloading System
- Design and Development of PFD's and P&ID's
- Implementation of Instrument Systems for Process Plant
- Development of Instrument Specifications
- Instrument Hookup & Loop Design
- Instrument Loop Design

### Safety Systems

- SIL2 & SIL3 based Safety Systems
- Emergency Shutdown Systems
- Fire & Gas Detection / Shutdown Systems
- Safety Integrity Level (SIL) studies
- Relay Based Safety Shutdown Systems
- Preliminary Hazard Analysis Review & HAZOP Study
- Development of Safety Related Cause & Effects



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## Telecommunication & Data Networking

- SCADA & Telemetry Systems
- Design and Development of UHF & Microwave Data Communications Systems
- Industrial Data Networks
- Fiber Optic Data Networks
- Wireless Communication Systems
- CCTV, Public Address & Security Systems

## Control Panel Fabrication Services

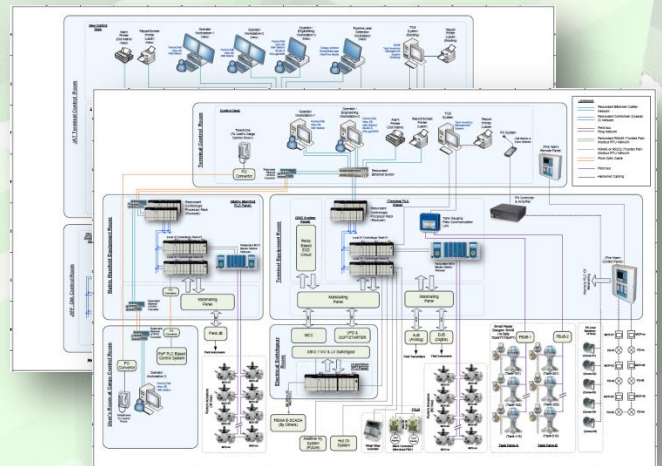
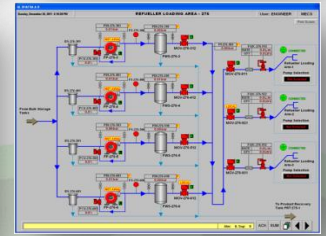
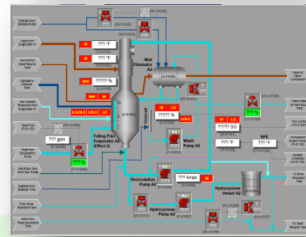
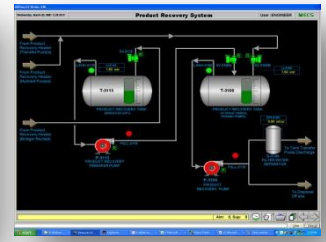
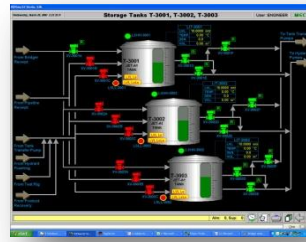
MECS is an authorized integrator of Rockwell Automation for the Allen Bradley range of automation products. MECS has extensive experience in designing and building high quality system / marshalling panels for Safety Shutdown, DCS and PLC applications. We also supply custom designed operator interface panels to suit any project.

The panels are designed and built to latest IEC standards for both on-shore as well as offshore applications. Our panels are subject to rigorous QC checks throughout the fabrication process according to ISO 9001-2008 procedures.

We conduct Factory Acceptance Test which includes a comprehensive simulated test on the hardware and software at our workshop prior to delivery for complete satisfaction to our clients and to verify the operability according to the process logic, specifications and standards.

The systems we supply includes,

- PLC & DCS Panels
- Marshalling Panels
- Relay Panels
- ESD System Panels
- Vibration & Temperature Monitoring Panels
- Ex-Proof Local Control Panels
- Annunciation Panels
- Control Consoles
- Field Distribution Junction Boxes



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## Experience Base

MECS has a significant track record of successful project implementation, and a large, diverse and established customer base throughout the Middle East and Africa. We pride ourselves in being able to deliver projects on time and within budget.

Some of the prestigious projects completed successfully include:-

- DUBAI WORLD CENTRAL AL MAKTOUM INTERNATIONAL AIRPORT FUEL FARM, UAE
- CABINDA GULF OIL COMPANY LTD ,ANGOLA
- GASCO RUWAIS 3rd NGL TRAIN, ABUDHABI, UAE
- SOHAR ALUMINIUM SMELTER PROJECT, OMAN
- BRITISH PETROLEUM – JET FUEL STORAGE at HFZ & PIPELINE to SIA, SHARJAH, UAE
- SHELL MARKETS MIDDLE EAST BITUMEN STORAGE, JAFZ, DUBAI, UAE
- MUKHAIZNA WATER TREATMENT PLANT, OMAN
- DIRECTORATE OF MILITARY WORKS – SAFRAN & AL-DHAFRA AIRBASE, ABU DHABU, UAE
- OCCIDENTAL PETROLEUM OF QATAR, QATAR
- EDIBLE OIL COMPANY DUBAI, UAE
- QATAR PETROLEUM, QATAR
- PETROCHEM MIDDLE EAST , JAFZ, DUBAI, UAE
- NATIONAL OIL STORAGE COMPANY HFZ, SHARJAH, UAE
- DEWA DFO PIPE LINE PROJECT, DUBAI, UAE
- STAR ENERGY RESOURCES LTD, DUBAI, UAE
- ISO OCTANE REFINERY, DUBAI, UAE
- DUBAI INTERNATIONAL AIRPORT FUEL FARM EXPANSION, DUBAI, UAE
- BAIJI REFINERY - IRAQ



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*MECS's success is centered on our commitment to customer satisfaction. Our dedication to integrity on every project means, "We promise to deliver and we deliver what we promise." This pledge is ingrained in every project we undertake.*



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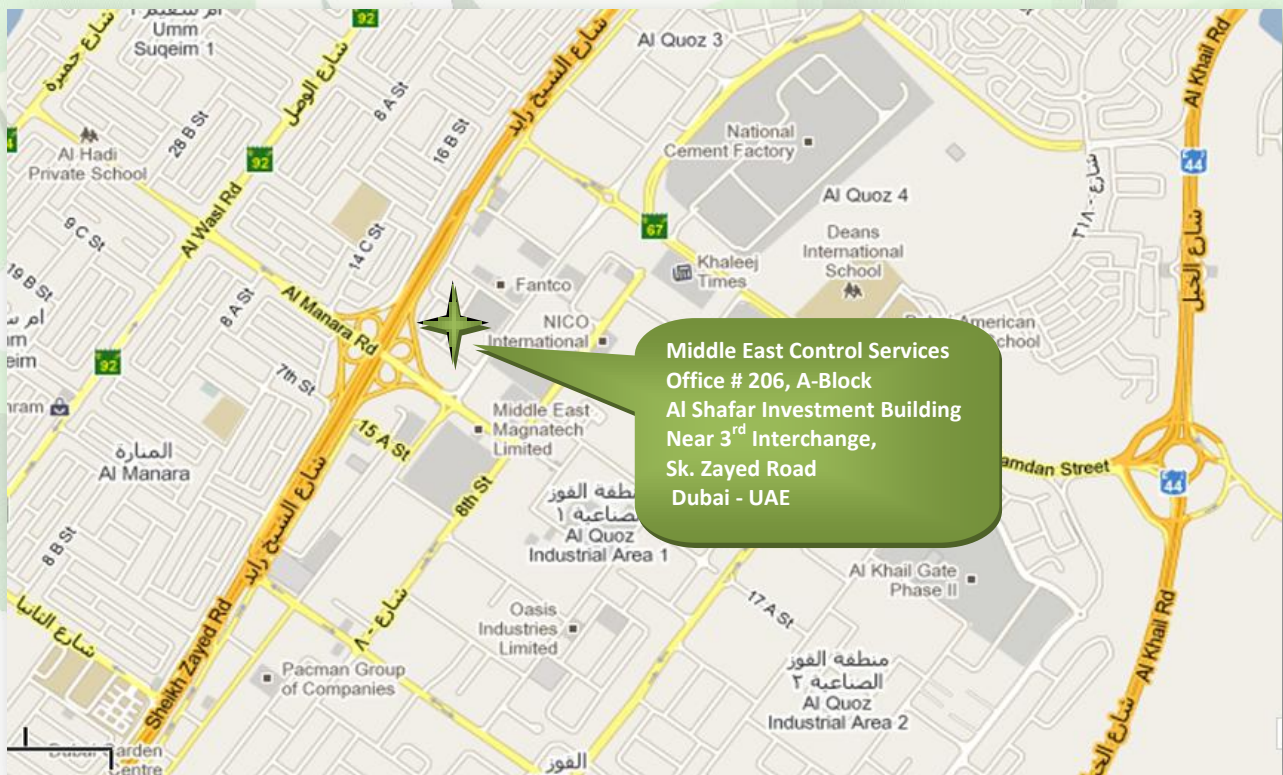
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