

Integrated Engineering • Inspection • Asset Integrity • Industrial Services

AXIOMA

Your Integrity Partner in the Emirates.

axioma-me.com

KSA EXPERIENCE. UAE EXPANSION. GCC VISION.

Who We Are

AXIOMA is an integrated engineering, inspection and industrial-services company supporting critical assets across oil & gas, petrochemical, energy, infrastructure, marine and industrial sectors.

Built on established experience in Saudi Arabia and now expanding into the UAE, **AXIOMA** combines specialist technical knowledge, experienced professionals and regional delivery capability under one platform. Our focus is to provide clients with safe, responsive and technically reliable solutions from inspection and asset integrity through engineering, instrumentation, maintenance and shutdown support.

Our UAE chapter represents an expansion of proven regional experience - not a beginning from zero. Through our management team, specialist resources and associated technical network, AXIOMA is positioned to support complex projects throughout the asset lifecycle.



Our Vision

To become a trusted GCC engineering and industrial-services partner recognized for technical excellence, responsive execution and long-term client value.

Our Vision

To integrate qualified people, proven technology and disciplined project execution to improve the safety, reliability and performance of our clients' assets.

CORE CAPABILITIES

NDT & Advanced NDT

Complete conventional & advanced inspection solutions for welds, pipelines, pressure equipment, tanks and critical assets.

Asset Integrity & Inspection

Condition assessment, corrosion monitoring, inspection planning and specialist integrity support.

Instrumentation & Automation

Field instrumentation, calibration, commissioning, analyzers, monitoring and control-system support.

Cooling Tower Solutions

Complete conventional & advanced inspection solutions for welds, pipelines, pressure equipment, tanks and critical assets.

Flare & Stack Inspection

Specialist inspection of flare stacks, chimneys and elevated structures using NDT, rope access and engineering survey methods.

Rope Access Services

Safe access solutions integrating inspection, maintenance and specialist work-at-height activities.

Shutdown & Turnaround

Rapid mobilization of multi-discipline teams for time-critical plant outages and turnaround campaigns.

Engineering & Digital Solutions

Engineering consultancy, GPR, 3D laser scanning, as-built modelling and digital project support.



CONVENTIONAL NON-DESTRUCTIVE TESTING



AXIOMA provides conventional NDT and inspection services to support quality assurance, fabrication, construction and maintenance activities.

CONVENTIONAL NDT & INSPECTION

- Visual Testing (VT) & Dimensional Inspection
- Liquid Penetrant Testing (PT / DPT)
- Magnetic Particle Testing (MT / MPI)
- Ultrasonic Testing (UT) & Thickness Gauging (UTG)
- Radiographic Testing (RT) – Conventional & Digital
- Positive Material Identification (PMI – XRF / OES)
- Hardness Testing & Ferrite Measurement
- Holiday Detection & Coating Thickness Measurement
- Vacuum Box Testing & Leak Testing
- Hydrostatic & Pneumatic Pressure Testing
- Magnetic Flux Leakage Testing (MFL)
- Radiographic Film Interpretation & Digitization



ADVANCED & SPECIALIST NDT

AXIOMA supports complex inspection requirements through advanced NDT technologies for weld assessment, corrosion evaluation and asset condition monitoring.



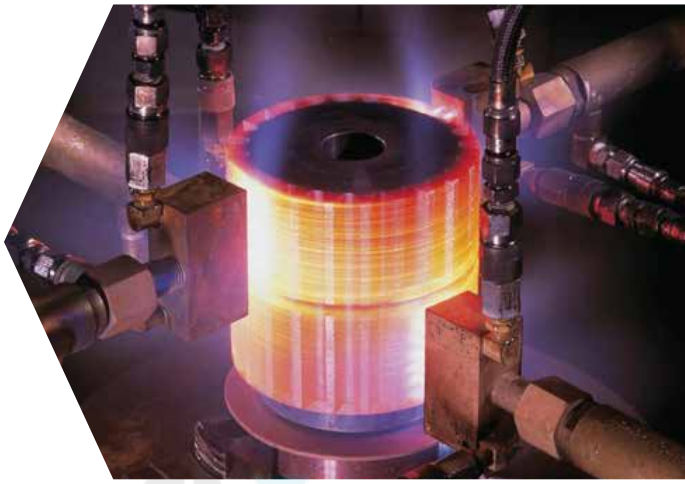
ADVANCED & SPECIALIST TECHNIQUES

- Phased Array Ultrasonic Testing (PAUT)
- Time of Flight Diffraction (TOFD)
- Automated & Encoded Ultrasonic Testing (AUT / EAUT)
- Full Matrix Capture & Total Focusing Method (FMC / TFM)
- Automated Corrosion Mapping & C-Scan
- Eddy Current Testing & Eddy Current Array (ECT / ECA)
- Remote Field Testing (RFT) & IRIS Tube Inspection
- Pulsed Eddy Current Testing (PECT)
- Long-Range / Guided Wave Ultrasonic Testing (LRUT / GWUT)
- Alternating Current Field Measurement (ACFM)
- Acoustic Emission Testing (AET)
- Heat Exchanger & Boiler Tube Inspection
- Tank Floor Scanning & Corrosion Assessment
- Infrared Thermography & Drone-Based Inspection

HEAT TREATMENT & PWHT SERVICES

AXIOMA offers heat treatment and PWHT solutions for welding, fabrication and industrial maintenance applications, supported by controlled temperature monitoring and documentation.

- Post Weld Heat Treatment (PWHT)
- Preheating & Stress Relieving
- Localized Electrical Resistance Heat Treatment
- Induction Heat Treatment
- Furnace Heat Treatment – Diesel, Oil & Gas Fired
- Annealing, Normalizing & Tempering
- Refractory Dry-Out & Controlled Heat-Up
- Temperature Monitoring, Recording & Documentation
- On-Site & Off-Site Heat Treatment Solutions



THIRD-PARTY INSPECTION & QA/QC SERVICES

AXIOMA provides independent inspection, quality assurance and specialist technical personnel support for fabrication, construction, maintenance and industrial projects. Our inspection resources help clients verify workmanship, equipment integrity and compliance with applicable project specifications and international standards.



- CSWIP / AWS Certified Welding Inspectors
- API 510, 570 & 653 Certified Inspectors
- API 580 Risk-Based Inspection & API 936 Refractory Specialists
- AMPP / NACE Level 1, 2 & 3 Coating Inspectors
- BGAS-CSWIP & FROSIO Painting Inspectors
- ISO 9712 / PCN / ASNT NDT Level II & III Inspectors
- Mechanical, Piping & Structural Inspectors
- Electrical & Instrumentation (E&I) Inspectors
- Pressure Vessel, Boiler & Storage Tank Inspectors
- Lifting Equipment & Rigging Inspectors
- Vendor Inspection, Expediting & Quality Surveillance
- Factory & Site Acceptance Testing (FAT / SAT)
- Welding Procedure & Welder Qualification Support
- Rope Access Inspection Personnel (IRATA L1 / L2 / L3)
- Shutdown & Turnaround Inspection Support

ASSET INTEGRITY & INSPECTION ENGINEERING

AXIOMA supports asset owners and EPC contractors with integrity assessment, inspection engineering and technical advisory services designed to improve reliability, manage degradation risks and support safe asset operation throughout the equipment lifecycle.

- Risk-Based Inspection (RBI)
- Fitness-for-Service (FFS) Assessment
- Corrosion Monitoring & Remaining Life Assessment
- Pressure Vessel, Piping & Tank Integrity Assessment
- Pipeline & Structural Integrity Inspection
- Flare Stack, Chimney & Refractory Inspection
- Inspection Planning & Technical Consultancy
- NDT Level III Consultancy & Procedure Development



QA/QC ENGINEERING & TECHNICAL QUALITY CONSULTANCY

AXIOMA provides specialized QA/QC engineering, procurement quality assurance, and technical consultancy solutions across the complete EPC project lifecycle, from engineering and procurement through construction, commissioning, and final handover. Our services focus on technical quality governance, risk mitigation, vendor compliance, and first-time-right project execution.

- Procurement Quality Assurance & Engineering Review
- Technical Quality Governance & Risk Management
- Vendor Quality Assurance & Manufacturing Surveillance
- Long-Lead Equipment Inspection & Quality Assurance
- Pre-Inspection Meeting (PIM) & Vendor Readiness
- Project QA/QC Management & Technical Auditing
- Welding, Materials & NDT Engineering Consultancy
- Technical Bid Evaluation & Inspection Test Plan (ITP) Review
- NCR Management, Root Cause Analysis & Corrective Actions
- EPC Quality Compliance & International Code Review
- Digital Quality Reporting & Performance Monitoring
- Specialist QA/QC Engineering & Technical Personnel Support

Engineering-Led Quality Solutions | Risk Mitigation | First-Time-Right Execution

NDT & INSPECTION SERVICES



AXIOMA provides conventional, advanced and specialist NDT solutions for fabrication, construction, commissioning, maintenance and in-service inspection. Services are delivered by qualified personnel using approved procedures and calibrated equipment in accordance with applicable project specifications and international standards.

CONVENTIONAL NDT

- Visual Testing (VT) and dimensional inspection
- Liquid Penetrant Testing (PT / DPT)
- Magnetic Particle Testing (MT / MPI)
- Ultrasonic Testing (UT) and thickness measurement
- Radiographic inspection support where licensed and approved
- Positive Material Identification (PMI), hardness and ferrite testing

ADVANCED & SPECIALIST NDT

- Phased Array Ultrasonic Testing (PAUT)
- Time of Flight Diffraction (TOFD)
- Automated / encoded ultrasonic inspection (AUT)
- Corrosion mapping
- Eddy Current Testing (ECT), RFT and IRIS tube inspection
- Long-range / guided-wave UT where applicable
- Pulsed Eddy Current and other specialist screening techniques where applicable

ASSET INTEGRITY & PIPELINE SERVICES

Our inspection capability extends beyond defect detection. AXIOMA supports clients in understanding asset condition, prioritizing inspection requirements and developing practical maintenance decisions.



- Pipeline weld and integrity inspection
- Piping, pressure vessel and storage-tank inspection
- Corrosion monitoring and thickness programs
- RBI / FFS support
- API inspection resources
- Coating and material verification
- Inspection planning, reporting & integrity data support

INSTRUMENTATION & AUTOMATION

AXIOMA supports industrial instrumentation throughout installation, commissioning, maintenance and shutdown phases.

- Pressure, temperature, flow and level instrumentation
- Instrument installation, calibration and loop checking
- Control valves and instrument tubing
- Process analyzers and monitoring systems
- Gas detection / Fire & Gas support
- PLC / DCS interface and commissioning support
- Tank gauging and radar measurement
- Troubleshooting and shutdown instrumentation support



COOLING TOWER SPECIALIST SERVICES

AXIOMA provides specialist cooling-tower support focused on asset condition, reliability, performance and lifecycle improvement.



- Cooling-tower condition surveys
- Structural and mechanical inspection
- Fill, drift eliminator, nozzle and water-distribution assessment
- Fan, gearbox and drive-system inspection
- Retrofit and upgrade support
- Component replacement and planned maintenance
- Shutdown execution and performance improvement support



FLARE STACK, FLUE STACK & REFRACTORY

For difficult-to-access elevated assets, **AXIOMA** combines rope access, NDT and engineering inspection to provide detailed condition information with reduced access complexity.



- Flare stack and chimney visual inspection
- UT thickness and weld NDT
- Flare tip, platform, ladder and structural assessment
- Guy-wire and connection inspection
- Corrosion / coating condition surveys
- Geometry / verticality survey support
- Refractory inspection and quality-control support in accordance with applicable API 936 requirements

ROPE ACCESS SERVICES

Rope access provides an efficient platform for inspection and maintenance in locations where conventional access is difficult, costly or time consuming.

- Rope-access NDT and close visual inspection
- Flare / stack inspection
- Structural and elevated asset inspection
- Painting and coating touch-up
- Minor mechanical and maintenance support
- Rescue planning & qualified work-at-height teams



JOINT INTEGRITY, TORQUING & TPI

BOLTING & JOINT INTEGRITY

Controlled torquing, tensioning, flange management and joint-integrity inspection for critical bolted connections, supported by traceable execution records.



THIRD-PARTY INSPECTION & SPECIALIST PERSONNEL

AXIOMA can support projects with specialist inspection and technical resources in the UAE, KSA and international locations, subject to local regulatory requirements.

- QA/QC and welding inspectors
- API inspectors
- NDT Level II / Level III personnel
- Mechanical, piping, E&I and coating inspectors
- Rope-access specialists
- Vendor/source inspection & expediting support

SHUTDOWN & TURNAROUND SOLUTIONS

Shutdowns and turnarounds demand speed, coordination and technical discipline. **AXIOMA** is structured to support planned and urgent outage requirements with integrated inspection and specialist resources.

- NDT and advanced NDT teams
- API / QAQC inspection personnel
- Rope access crews
- Instrumentation teams
- Mechanical / bolting support
- Flare, stack, tank, vessel and piping inspection
- Multi-shift mobilization and progress reporting





ENGINEERING, GPR & DIGITAL SOLUTIONS

AXIOMA connects field data with engineering and digital deliverables to support brownfield projects, modifications, maintenance planning and asset documentation.





- Engineering consultancy and inspection engineering
- Mechanical / piping project support
- Ground Penetrating Radar (GPR) and utility mapping
- Concrete scanning and embedded-object location
- 3D laser scanning and point-cloud capture
- As-built drawings and BIM / 3D modelling
- Dimensional verification and brownfield surveys
- Repair / modification and technical documentation support

MARINE & CLASS-RELATED INSPECTION

AXIOMA supports marine and offshore inspection requirements through qualified resources and approved inspection procedures. Class-related work involving ABS, DNV or other classification societies will be presented only in accordance with the specific approval or acceptance applicable to the project.







- Hull / structural inspection support
- Thickness measurement
- Weld NDT
- Rope-access inspection
- Class survey support activitie



INDUSTRIES WE SERVE



















FROM KSA EXPERIENCE TO UAE GROWTH

Our regional experience has been developed through projects and specialist activities across Saudi Arabia's demanding industrial environment. This foundation provides **AXIOMA** with practical understanding of major-client expectations, shutdown schedules, technical compliance, HSE requirements and complex field execution.

AXIOMA is now bringing this experience into the UAE through a dedicated local platform, combining regional knowledge with local client engagement and execution capability.

PROJECT EXPERIENCE

Sl.	Project Name	End User
1	Construction of Temporary Site Facility, Early Works Package - Jafura Gas Plant	SAUDI ARAMCO
2	ARAMCO - JAFURAH / TEMPORARY FACILITIES SAPMT AND CONTRACTORS CAMP	SAUDI ARAMCO
3	ARAMCO-JAFURAH INDUSTRIAL SUPPORT FACILITY (JAFURAH ISF) PE DESIGN & CERTIFICATION PACKAGE FOR FIRE FIGHTING & FIRE ALARM SYSTEMS	SAUDI ARAMCO
4	Oily Network, Storm Water and Fire Water Network, RTR Pipe line works 58 KMS - Jafura Unconventional Gas Field - PACKAGE 6	SAUDI ARAMCO
5	Engineering Package for Corrosion Inhibitor Skid Installation	SAUDI ARAMCO
6	RAS TANURA REFINERY (RUTR) UPGRADE PROJECT- GDR MAPPING, LASER SCANNING	WORLEY/ SAUDI ARAMCO
7	RESIDUE UPGRADE AT RAS TANURA REFINERY - TANK REPURPOSING AND FEASIBILITY STUDY	WORLEY/ SAUDI ARAMCO
8	SUPPLY, INSTALLATION & TESTING COMMISSIONING OF FIRE ALARM SYSTEM FOR FUEL DISTRIBUTION NETWORK	SAUDI ARAMCO
9	Design & Fabrication of De-gassing Tank for SADAF	SABIC
10	Laser Scanning & 3D Modelling of Ras Tanura Tankfarm & North Pier	SAUDI ARAMCO
11	SADARA Cooling Tower Global Services Long Form Contract, SPIG	SADARA
12	Fabrication & Rubber Lining for Level Transmitter Spools	RAWEC
13	ALDUR 2 INDEPENDENT Power & Water PLANT	NOMAC - BAHRAIN
14	COMPLETE REVAMPING OF COOLING TOWER-29 CELLS - Sohar 3 Independent Power Plant (IPP)	NOMAC - OMAN
15	Ground Flare Turn Around, E and I package - Saudi Chevron TA-2022	SAUDI CHEVRON, SCHEM
16	NOVEL Plant Errection Package, RTP Production Facility (Baker Huges JV)	SPARK, BAKER HUGHES SAUDI ARAMCO JV
17	Engineering Package Air Quality Measurement System, Maaden Phosphate	MAADEN
18	Laser Scanning & 3D Modelling for Qassim Bulk Plant and Riyadh Bulk Tank & Terminal	SAUDI ARAMCO
19	Installation of Radar Tank Gauging System for Jeddah Terminal	SAUDI ARAMCO
20	SADARA - Linde I SPIG Retrofit Cooling Tower	SADARA
21	Fadhli GCCIA Grid 380V Semiconductors HVL Coating	SAUDI ELECTRIC COMPANY
22	SATORP CT Revamp Activities TA - 2022	SAUDI ARAMCO-TOTAL
23	Petro Rabigh Global Services Long Form Contract, SPIG	PETRORABIGH
24	John Hopkins Aramco Healthcare Gynecology Center - Demolition and Construction Package	JOHNS HOPKINS SAUDI ARAMCO
25	Neom Bay Airport Extension Project - Electro Mechanical and Civil Works	GACA
26	Smart Water Meters, Smart City Pilot Project	WIPRO/SAUDI ARAMCO
27	International Maritime Industries- FDAS Package 4, 5 and 6	SEPCO
28	Eastern Petrochemical Company (SHARQ) CHILLER UNIT AND FIN FAN INSTALLATION	SABIC
29	{AHG} Abdullah Hashim Industrial Gases Cathodic Projection for Pneumatic Pipeline	AHG
30	CT Renovation Works in SAHARA Fill, Des, Nozzles and Casing sheet Replacement Work	SAHARA
31	PETRORABIGH CT-04 Distribution Header Modification Works	PETRO RABIGH

Sl.	Project Name	End User
32	CT Renovation Works in SAHARA Fill, Des, Nozzles and Casing sheet Replacement Work	SAHARA
33	John Hopkins HealthCare Bldg 61 Pediatric Unit	JOHNS HOPKINS SAUDI ARAMCO
34	SAPMT Residential Camp Marjan Gas Fields Design and Pe Certifications	MARJAN GAS FIELDS, SAUDI ARAMCO
35	Ajyal Housing SDHO Project - 28 Villas	SAUDI ARAMCO
36	DE & Nozzle Replacement Works in - Polyethylene CT Revamping	SADARA
37	Ibn Sina -EHSS Building-Replacement of HVAC System(Chilled water system)	SABIC
38	Laser Scanning & 3D Modelling High Pressure Production Trap Vessels	SAUDI ARAMCO
39	E&I Works for Replacement of Waste Heat Boiler for AR-RAZI Turn Around 2020	SABIC
40	Installation of Ultrasonic flow Meters, Tanajib Community Centre	SAUDI ARAMCO
41	Shedgum GOSP New Security Gate Project IP TEL & Data Network	SAUDI ARAMCO
42	Construction & Upgrade of Fire Protection Systems, North Riyadh Tankfarm	SAUDI ARAMCO
43	Construction & Upgrade of Fire Protection Systems, Sulayyil Bulk Plant	SAUDI ARAMCO
44	New Security Force Buildings for Gas Oil Separation Plants 1.2,3,4 & NGL PLANTS Hotline & Analog Telephone Network	SAUDI ARAMCO
45	Smart Water Meters, Smart City Pilot Project	SAUDI ARAMCO
46	Upgrade of Fire Detection Alarm System f or Satellite Interface Buildings at Pump St. 2	SAUDI ARAMCO
47	KFUPM BLDG 15 CT -Supply and Installation	KING FAHAD UNIVERSITY OF PETROLEUM AND MINERALS
48	KFUPM Bldg 76 - CT Efficiency upgrade	KING FAHAD UNIVERSITY OF PETROLEUM AND MINERALS
49	BCI I Thyssenkrupp Cooling Tower Errection	BASIC CHEMICAL INDUSTRIES/THYSSENKRUPP
50	Petro Rabigh Contractors Park Temporary Site Facilities	SAUDI ARAMCO-S UMITUMO CHEMICAL JAPAN
51	Hamon Thermal Europe Chemanol - CT REVAMP AND BASIN REPAIRS	CHEMANOL
52	Tanhat Minning Company Expansion Project	TANHAT MINING CO
53	Binzagar Insulation Factory Test Rig Facilities	BINZAGAR
54	Corrosion Assessment for Fuel Handling Facilities	SAUDI CEMENTS
55	Arm Force Hospital (Diabetic Center)- Dahran	ARMED FORCES HOSPITAL
56	Replacement of Demountable Flare Tips	YANPET
57	International Maritime Industries Temporary Site Facilities	IMI/SEPCO
58	Construction of Automation Panel Manufacturing Unit EWAS	AL TURKI EAST WEST FACTORY
59	Dareen MUDP Project CO (Carbon Monoxide) Gas Monitoring, Detection, Alarm & Ventilation System	Dareen MUDP Project, AL GHANIM
60	Construction and Maintanence of Bader Al Swaidan Grand Mosque Dhahran	PRIVATE
61	Saleh Al Gossaibi Residential Villa	AL GOSSAIBI

ASSOCIATED REGIONAL CAPABILITY NETWORK

AXIOMA's UAE platform is strengthened by relationships with experienced KSA technical companies and specialist teams. Subject to formal authorization, the profile can showcase ProBuild Global, InstruMech and Al Nasha NDT & Inspection Services as associated capability partners.

PROBUILD GLOBAL
Engineering/construction support, industrial maintenance, cooling towers, turnaround, flare/stack and digital/as-built capability.

INSTRUMECH
Instrumentation, automation, process measurement, monitoring and specialist industrial support.

AL NASHA NDT & INSPECTION SERVICES
Conventional and advanced NDT, pipeline/weld inspection and specialist inspection services.

WHY AXIOMA

- Established KSA experience supporting UAE growth
- Integrated multi-discipline service capability
- Conventional and advanced inspection expertise
- Specialist technical professionals
- Shutdown-ready mobilization capability
- Engineering + inspection + maintenance under one platform
- Regional capability network
- Safety, quality & technical integrity at the center of execution

HSEQ COMMITMENT

Safety and quality are fundamental to **AXIOMA**'s delivery model. Every project is approached through competent personnel, controlled procedures, calibrated equipment, risk assessment, project-specific HSE planning, technical review and traceable reporting.

AXIOMA

Your Regional Partner For **Engineering, Inspection & Industrial Excellence**

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DISCUSS YOUR NEXT PROJECT WITH AXIOMA