



PROCESS SAFETY • DIGITALIZATION • ENGINEERING

ENGINEERING SAFER, SMARTER OPERATIONS

Global expertise. Local delivery. Technology-enabled assurance.

QATAR

Doha

INDIA

Chennai delivery center

UNITED STATES

Texas-registered consulting entity

WHO WE ARE

One integrated safety and technology partner

Advisory depth, specialist engineering and practical digital implementation.

Alinoz Energy helps asset owners, operators, EPC contractors and engineering consultants manage major accident risk, strengthen operational discipline and improve decision-making across the asset lifecycle. Our delivery combines specialist process safety and risk expertise with digitalization and industrial automation capabilities.

01 DOHA, QATAR

Client engagement, workshops, consulting and project leadership.

02 CHENNAI, INDIA

Engineering delivery center supported by a global expert network.

03 TEXAS, USA

U.S. market development, local client interface and scalable technical delivery.

OUR PROMISE

Global expertise. Accountable delivery

Solutions tailored to the client's assets, risk profile, standards and operating context.

CAPABILITY ARCHITECTURE

From study to sustained performance

Four connected capability pillars across the project and operating lifecycle.

01 Process safety & risk

- PHA facilitation
- QRA and consequence modelling
- Functional safety
- Major accident hazard management

02 Loss prevention engineering

- Fire protection and F&G;
- Escape, evacuation and survivability
- Safety critical elements
- Technical safety design assurance

03 Digital PSM & operational safety

- e-Permit to Work
- Management of Change
- Incident and CAPA workflows
- Dashboards, analytics and integration

04 Training & capability building

- Process safety management
- HAZOP team member
- Functional safety and LOPA
- Case studies and lessons learned

LIFECYCLE COVERAGE

Concept & Select → FEED → Detailed Design → Construction & Commissioning → Operations → Decommissioning

CORE SERVICES

Process safety, risk and loss prevention

Structured studies and engineering deliverables that support defensible decisions.

PHA & workshops

- HAZID / ENVID / OHID
- HAZOP / SIMOPS / SAFOP
- SIL / LOPA
- Alarm rationalization

Risk & consequence

- QRA and ALARP
- FERA / FSA / BRA
- Toxic and flammable dispersion
- Vent, flare and radiation

Emergency & survivability

- EERA / ESSA
- TRIA / SGIA
- Emergency response planning
- Escape route and muster review

Assurance & compliance

- MAHM and risk registers
- SCE / SCT identification
- Performance standards
- Bow-tie analysis

Human factors

- HFE design review
- Valve criticality
- Task requirement analysis
- Control room ergonomics

Specialist studies

- Dropped objects
- Ship collision / marine traffic
- Noise and occupational health
- RAM and asset reliability

A complete IEC 61511-aligned lifecycle service

Independent facilitation, verification and documentation support.

1

HAZARD REVIEW

PHA inputs and safeguards

2

SIL TARGETING

LOPA / risk graph as applicable

3

SRS

Clear safety requirements

4

VERIFICATION

Design adequacy and calculations

5

VALIDATION

Evidence against requirements

Typical outputs

SIL assessment report • LOPA worksheets • SRS • SIL verification • Functional Safety Assessment • Validation support

Digital PSM and operational safety

Alinoz process-safety knowledge combined with ICPro technology and integration capability.

ALINOZ + ICPRO

Translate procedures into usable digital workflows.

From requirements and workflow design to configuration, integration, deployment, training and post-go-live support.

CONSULT

Gap assessment and requirements

CONFIGURE

Workflows, roles and controls

INTEGRATE

Data, dashboards and interfaces

ADOPT

Training, rollout and support

Outcome: stronger control of work, clearer accountability, traceable approvals, improved visibility and audit-ready records - configured to the client's governance model and operational context.

Connected workflows for safer operations

Modular solutions can be implemented individually or as an integrated platform.

01 e-PERMIT TO WORK

Digital request, review, issue, suspension, extension and close-out workflows.

02 MANAGEMENT OF CHANGE

Structured technical and organizational change control with approvals and action tracking.

03 INCIDENT & CAPA

Incident, near-miss, investigation, root-cause and corrective-action management.

04 PROCESS SAFETY MANAGEMENT

Centralized PSM information, workflows, ownership, assurance and visibility.

05 ASSET INTEGRITY

Inspection, condition, maintenance and assurance information for critical assets.

06 ALARM MANAGEMENT

Alarm performance monitoring, rationalization support and improvement tracking.

07 DASHBOARDS & ANALYTICS

Role-based indicators, trends, exception reporting and management insight.

08 MOBILE & INTEGRATION

Field access and connection with enterprise, plant and reporting systems.

AUTOMATION & CONTROLS

Engineering the connected industrial plant

ICPro capabilities extend from controls and instrumentation to IIoT and advanced analytics.

Control & safety systems

Integrated control and safety systems, PLC/DCS applications and HMI solutions.

Hardware & instrumentation

Hardware engineering, instrumentation, control panels and hazardous-area solutions.

Industrial software

Custom software, historian and reporting applications, traceability and workflow solutions.

IIoT & edge

Edge processing, connected assets, remote monitoring and industrial data acquisition.

Analytics & digital twins

Operational dashboards, performance analytics, modelling and simulation.

Execution support

FEED, project management, installation, commissioning and troubleshooting support.

Build confident, competent teams

Instructor-led programs tailored to the client's assets, procedures and learning objectives.

Process Safety Management

Classroom • Virtual • Client-site

HAZOP Team Member

Classroom • Virtual • Client-site

HAZID / Risk Assessment

Classroom • Virtual • Client-site

SIL, LOPA & Functional Safety

Classroom • Virtual • Client-site

Accident Case Studies & Lessons Learned • Cause Analysis

Classroom • Virtual • Client-site

Permit to Work & Control of Work

Classroom • Virtual • Client-site

Management of Change

Classroom • Virtual • Client-site

Management of Change

Classroom • Virtual • Client-site

Delivery options

Standard courses • Customized workshops • Leadership briefings • Coaching and competency support

SECTORS

Relevant wherever complex risk meets critical operations

Our expanded proposition supports both energy and diversified industrial markets.

Oil, gas & LNG

Upstream, midstream, terminals, pipelines and processing facilities.

Chemicals & petrochemicals

Process hazards, functional safety, operations and asset integrity.

Power & utilities

Generation, water, electrical infrastructure and energy transition projects.

Manufacturing

Automation, digital workflows, machine and operational safety.

Infrastructure & facilities

Fire/life safety, risk assessment and operational control.

Pharma & life sciences

Process discipline, change control, automation and traceability.

Ports & marine

Marine risk, ship impact, transfer operations and emergency planning.

Data centers & critical assets

Reliability, emergency response, fire protection and assurance.

REPRESENTATIVE EXPERIENCE

Qatar project experience

Selected assignments demonstrating breadth across the project lifecycle.

PROJECT / CLIENT	ROLE	SELECTED SERVICES
Miscellaneous Instrument MOCs - Dukhan Field QatarEnergy / Blackcat	Study consultant to engineering contractor	HAZID, SIL assessment, SIL verification, SRS, HSE critical elements/tasks, performance standards, MAH risk register and human factors assessment.
DIYAB'16 Well Fluid Pipeline Replacement QatarEnergy / Blackcat	FEED safety and risk consultant	PHA workshops, QRA, FERA, EERA, ESSA, HFE, F&G; mapping, functional safety, bow-tie, ALARP and MAHM deliverables.
NFPS COMP8A Offshore Brownfield Modifications QatarEnergy LNG / QCon / Technip	Study consultant to EPC contractor	HAZID, ENVID, HAZOP, QRA, FERA, EERA, ESSA, TRIA, SGIA, construction EERA, F&G; 3D mapping, performance standards and MAHM.
Dukhan Production Facilities Upgrade - Phase 1B QatarEnergy / Galfar / Kent	Study consultant to EPC contractor	Comprehensive PHA, risk, dispersion, functional safety, emergency systems, human factors and safety-critical performance standards.
LGO Storage Tanks and Transfer Pump - RLIC WOQOD / Blackcat	Design safety consultant	HAZID, HAZOP, SIL, SIMOPS, bow-tie, QRA, FERA, ALARP, EERA, ESSA, SCE/performance standards and oil spill assessment.

REPRESENTATIVE EXPERIENCE

GCC and international experience

Selected assignments demonstrating breadth across the project lifecycle.

PROJECT / CLIENT	ROLE	SELECTED SERVICES
Project SALT - EDC/VCM/PVC Plant ADNOC / Apave, UAE	Study consultant	RAM study, energy review and noise study.
Lower Zakum LTDP-1 EPS-2 and PDP ADNOC Offshore / Petro Middle East	Engineering study consultant	F&G; 3D mapping, dropped-object study, QRA including BRA and H2S zoning, and RAM study.
Non-System Crude Logistics Facility ADNOC / Unique Solutions Engineering	FEED specialist consultant	PHA, HAZOP, SIL, ergonomics, HFE, PHSER, F&G; mapping and inherent safety design.
West Qurna 2 Gas Turbine Expansion Lukoil / Tech Safe and Fire Engineering, Iraq	Human factors consultant	Ergonomics and HFE including valve criticality, task requirements, control-room analysis and 3D model review.
Ar-Razi Water Quality Project SABIC / Saudi Consult	Workshop facilitation	HAZOP study facilitation for project design assurance.

SPECIALIST ENGINEERING TOOLS

Software access for credible, efficient delivery

Recognized platforms selected to match study scope, client standards and modelling needs.

01

PHAST & SAFETI

DNV

Consequence modelling and quantitative risk assessment

02

exSILentia

EXIDA

SIL assessment, verification and functional safety lifecycle support

03

PHA-Pro

SPHERA

Structured PHA and workshop recording

04

BowTieXP

WOLTERS KLUWER

Bow-tie development, barrier visualization and assurance

05

Flaresim

SLB

Flare system radiation and dispersion assessment

06

Detect3D

INSIGHT NUMERICS

Three-dimensional fire and gas detector mapping

07

MAROS & TAROS

DNV

RAM, availability and production reliability modelling

TOOL-ENABLED, EXPERT-LED Software supports analysis; assumptions, methodology, interpretation, review and recommendations remain under experienced engineering control.

DELIVERY ASSURANCE

Credentials, tools and disciplined execution

A quality-managed delivery system supported by specialist software and experienced practitioners.

MANAGEMENT SYSTEM CERTIFICATIONS

- ISO 9001:2015 - Quality
- ISO 45001:2018 - Occupational H&S;
- ISO/IEC 27001:2022 - Information Security

TECHNICAL DELIVERY RESOURCES

- Experienced facilitators and study leads
- Specialist consequence and risk analysts
- Functional safety practitioners
- Human factors and loss prevention expertise
- Digital and automation engineers

DELIVERY CONTROLS

- Competent study leadership
- Approved methods and checklists
- Independent review and QA
- Secure information handling
- Action and comment close-out
- Documented assumptions

Flexible delivery without compromising accountability

Alinoz assembles the right combination of local leadership, subject-matter experts and engineering resources for each scope.

The result is a scalable team with clear interfaces, controlled outputs and direct access to decision-makers.

A focused entry into the U.S. industrial market

Texas-registered presence backed by Alinoz's global engineering delivery model.

Local client interface. Global specialist depth.

Alinoz Energy Consulting USA supports owners, operators, EPC contractors and specialist consultancies seeking responsive process safety, loss prevention, digital PSM and automation expertise. Engagements can begin with defined specialist scopes and scale through hybrid U.S./global delivery.

TARGET SECTORS

Energy • LNG • Chemicals • Manufacturing • Utilities • Infrastructure

ENTRY SERVICES

PHA support • Technical safety studies • Functional safety • Digital PSM

COLLABORATION MODELS

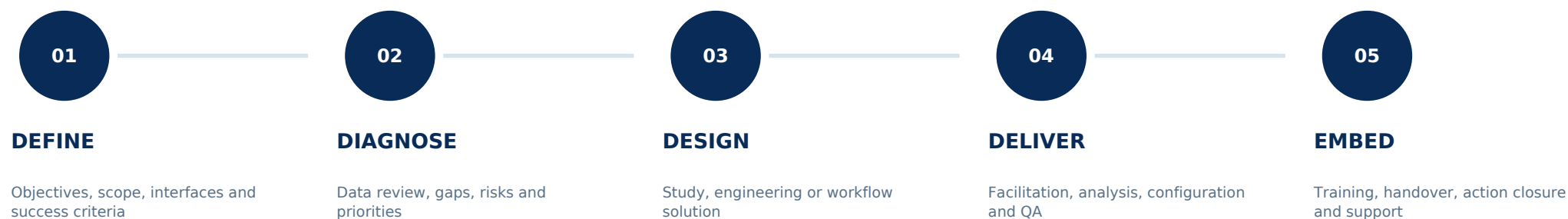
Direct consulting • Subconsultancy • Specialist augmentation • Technology implementation

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HOW WE DELIVER

A clear path from need to measurable value

Consulting discipline with practical implementation support.



Designed around client realities

STANDARDS

Company requirements and applicable codes

PEOPLE

Roles, competence and adoption

SYSTEMS

Data, tools and interfaces

PERFORMANCE

Actions, indicators and improvement

LET'S BUILD SAFER, SMARTER OPERATIONS.

Talk to us about a study, framework agreement, digital pilot or collaboration.

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