

Project Summary for Qualco

Overview

Qualco is poised to deliver a comprehensive suite of specialized services to enhance operational efficiency, safety, and compliance within the oil & Gas industry, and other sectors. Leveraging industry expertise and cutting-edge technologies, this project integrates welding and fabrication, rope access, electrical and instrumentation (E&I), access control, and complementary specialty services. The scope of work is designed to address critical infrastructure needs while adhering to stringent safety and quality standards.

Scope of Work

1. Welding & Fabrication

- **Activities:** Design, fabrication, installation, and repair of pipelines, pressure vessels, structural steel, and process equipment.
- **Standards:** Compliance with ASME, API, and AWS codes.
- **Quality Assurance:** Non-destructive testing (NDT) via ultrasonic, radiographic, and magnetic particle inspection.
- **Outcome:** Durable, code-compliant infrastructure to support facility operations.

2. Rope Access Services

- **Activities:** Inspection, maintenance, and repair of elevated or confined assets (e.g., flare stacks, offshore platforms) using IRATA-certified technicians.
- **Safety Protocols:** Fall protection, hazard assessments, and emergency response plans.
- **Outcome:** Cost-effective access solutions minimizing downtime and scaffolding needs.

3. Electrical & Instrumentation (E&I)

- **Activities:** Installation, calibration, and troubleshooting of electrical systems, control panels, PLCs, and process instrumentation (flow meters, pressure transmitters).
- **Compliance:** IEC standards, ATEX/IECEx for hazardous areas, and cybersecurity for SCADA systems.
- **Outcome:** Reliable power distribution and precise process control.

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4. Access Control Systems

- **Activities:** Deployment of biometric scanners, CCTV, turnstiles, and cybersecurity-integrated digital systems.
- **Integration:** Seamless alignment with existing security infrastructure and real-time monitoring.
- **Outcome:** Enhanced physical and digital security for personnel and assets.

5. Other Specialty Services

- **Corrosion Protection:** Apply coatings and cathodic protection systems.
- **Mechanical Maintenance:** Valve servicing, pump overhauls, and pipeline pigging.
- **Training & Compliance:** Safety audits, environmental monitoring, and competency programs for facility personnel.

6. Training Advancements for Personnel

- **Technical Upskilling:**
 1. **Welding/Fabrication:** Advanced certification programs (e.g., API 510/570, ASME IX).
 2. **Rope Access:** IRATA Level 1–3 training, rescue drills, and hazard recognition.
 3. **E&I:** Workshops on Access control systems, PLC programming, IoT integration, and cybersecurity protocols.
- **Safety & Compliance:**
 1. HSE workshops (OSHA, NEBOSH) and emergency response simulations.
 2. Environmental stewardship training (ISO 14001 alignment).
- **Digital Tools:**
 1. VR-based simulations for high-risk scenarios (e.g., confined space entry, live electrical work).
 2. E-learning modules for refresher courses on access control systems and instrumentation.
- **Leadership Development:**
 1. Supervisory skills training for project leads, focusing on risk assessment and team coordination.
- **Outcome:** A skilled, safety-conscious workforce capable of maintaining modernized systems and adapting to evolving industry standards.

Project Management & Coordination

- **Execution:** Phased approach with milestones for fabrication, inspections, and system commissioning.

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- **Collaboration:** Regular stakeholder updates and integration with onsite teams.
- **Tools:** Advanced scheduling software and QA/QC tracking for transparency.
- **Training:** Continuous

Health, Safety, & Environmental (HSE) Compliance

- **Protocols:** Adherence to OSHA, ISO 45001, and facility-specific safety guidelines.
- **Environmental:** Spill prevention, waste management, and emissions monitoring.
- **Culture:** Daily safety briefings and incident reporting mechanisms.

Deliverables & Timeline

- **Deliverables:** Commissioned systems, inspection reports, as-built documentation, and training handovers.
- **Timeline:** Continually throughout the company's existence.

Conclusion

Qualco's integrated approach ensures a seamless, safe, and efficient operation of critical systems. By combining technical excellence with rigorous HSE practices, this project will bolster operational reliability and regulatory compliance, positioning your facility for long-term success.

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