

Ehab Abutahoun

Coating Engineer | Pipelines Coatings and FJC Expert

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Egyptian | UAE/Oman/Egypt Driving Licenses



VALUE PROPOSITION

Accomplished **Senior QA/QC Coating & Painting Engineer** and **Technical Manager (Coatings)** with over **26 years of international experience** across oil & gas, LNG, subsea, and pipeline projects. Recognized expert in **corrosion protection, coating systems, welding inspection, insulation, PFP, and quality management**. Adept at leading **multi-disciplinary teams, developing technical specification, procedures and ITPs, qualifying contractors, and ensuring compliance with international standards and company specifications of major companies like ADNOC, STATOIL, DNV, Shell, QP, QG, Total Energies, Oman Gas Company and others**, known for combining **deep technical expertise with advanced data analytics, Python programming, and CAD skills** to optimize quality assurance, reduce costs, and improve project delivery. 12 years senior technical manager of Eastern Hemisphere with SHAWCOR (CANUSA-CPS).

TECHNICAL EXPERTISE

- QA/QC Inspection & Technical Management (Coating, Welding, Painting, FJC, Insulation, Fireproofing)
- Pipeline & Subsea Structures Coating (PP/PE/FBE/FJC)
- Coating Application, Testing & Vendor Qualification
- Cathodic Protection & Mechanical Testing
- Quality Systems (ISO 9001:2015, Internal Auditing)
- 2D/3D CAD (SolidWorks, AutoCAD, Inventor)
- Advanced Data Analytics (Python, SQL, Pandas, TensorFlow, Tableau)

PROFESSIONAL SKILLS

- Technical Leadership & Team Building
- Risk, Safety & Compliance Management
- Contract Review & Technical Bidding Evaluation
- Client & Contractor Relationship Management
- Training, Mentoring & Technical Presentations
- Business Development & Stakeholder Engagement

WORK EXPERIENCE

SENIOR COATING ENGINEER

TOTAL ENERGIES (MOZAMBIQUE LNG OFFSHORE PROJECT)

ZEIT BAY, EGYPT | 12/2024 – PRESENT

- Conduct **coating and painting inspections** for subsea structures, offshore pipelines, and critical assets to ensure compliance with **international standards and project specifications**.
- Supervise daily activities of **TECHNIP/PETROJET subcontractors**, ensuring adherence to **HSE protocols, QA/QC procedures, and inspection test plans (ITPs)**.
- Review and validate **technical documents** including job procedures, specifications, quality records, and laboratory test results.
- Perform **root-cause analysis** on deviations, preparing corrective and preventive actions to align with recovery plans.
- Ensure project deliverables meet **TOTAL ENERGIES requirements** while driving zero-defect quality culture.

SENIOR QA/QC COATING ENGINEER (ADNOC APPROVED)

ARCHIRODON WAVE PROJECT

ABU DHABI, UAE | 03/2024 – 12/2024

- Developed and approved **painting and coating job procedures, method statements, ITPs, and specifications**, ensuring alignment with **ADNOC and project standards**.
- Conducted **technical bid evaluations** for contractors and vendors, optimizing selection based on cost, quality, and performance.
- Supervised a team of **site inspectors**, mentoring them on QA/QC best practices, safety compliance, and coating application techniques.
- Ensured **first-time quality approvals (min 90% success rate)** through internal verifications, proactive inspections, and early issue resolution.
- Coordinated with **engineering and construction departments** to integrate coating systems into overall project scope.
- Led the **closure of NCRs, RFIs, and NRIs** by compiling, reviewing, and submitting complete technical documentation.

EDUCATION & CERTIFICATIONS

- **B.Sc. Mechanical Engineering**
– Alexandria University, Egypt

CERTIFICATIONS

- CSWIP 3.1 Welding
- AMPP/NACE 2 Senior Coating Inspector
- ADNOC Approved Senior Coating Engineer
- BGAS 2 Painting Inspector,
- HSE Training
- Senior Management (LDL-London)
- Python Programming, Machine Learning
- Data Analytics
- CAD (2D/3D).

TECHNICAL TOOLS & DIGITAL SKILLS

- **Engineering:** SOLIDWORKS, AutoCAD, Inventor
- **Data & Analytics:** Python, Pandas, NumPy, SQLAlchemy, Tableau, TensorFlow, Machine Learning
- **QA Systems:** ISO 9001-2015, Internal Auditing Tools
- **General:** MS Office, Technical Presentations, Risk & Security Management

PERSONAL DETAILS

📞 **Phone:** +20 115 284 9630 (Egypt)

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🎂 **Date of Birth:** August 1973

🌐 **Nationality:** Egyptian

🏠 **Address:** Egypt

🚗 **Driving Licenses:** Valid in UAE, Oman, and Egypt

SENIOR COATING ENGINEER (CERTIFICATION AUTHORITY) DNV ENERGY

EGYPT | 08/2022 – 02/2024

- Served as **certification authority** for coating works, ensuring compliance with **DNV, NACE, and client specifications** for major regional projects.
- Designed, reviewed, and approved **coating documentation** including technical reports, material approvals, and system design for above ground, subsea and pipeline assets.
- Oversaw **new coatings, coating repair, rehabilitation, and maintenance activities** on offshore terminals, subsea pipelines, and storage tanks.
- Audited vendor qualifications, **witnessed laboratory testing**, and verified coating performance against client acceptance criteria.
- Provided **technical advisory** to clients on best practices for corrosion prevention and long-term coating strategies.

SENIOR QA/QC COATING ENGINEER (ADNOC APPROVED) ARCHIRODON BAB PROJECT

ABU DHABI, UAE | 12/2020 – 07/2022

- Developed and approved **painting and coating job procedures, method statements, ITPs, and specifications**, ensuring alignment with **ADNOC and project standards**.
- Conducted **technical bid evaluations** for contractors and vendors, optimizing selection based on cost, quality, and performance.
- Supervised a team of **site inspectors**, mentoring them on QA/QC best practices, safety compliance, and coating application techniques.
- Ensured **first-time quality approvals (min 90% success rate)** through internal verifications, proactive inspections, and early issue resolution.
- Coordinated with **engineering and construction departments** to integrate coating systems into overall project scope.
- Led the **closure of NCRs, RFIs, and NRIs** by compiling, reviewing, and submitting complete technical documentation.

SENIOR TECHNICAL SERVICES MANAGER SHAWCOR

GLOBAL (UAE, UK, ONSHORE/OFFSHORE) | 2007 – 2015 & 2018 – 2019

- Managed **pipeline field joint coating (FJC) and linepipe coating projects** across the Eastern Hemisphere, leading client meetings and technical qualifications.
- Oversaw **induction heating generator fleet** operations, including allocation, maintenance, and performance optimization.
- Conducted **global technical presentations** (NACE, International Pipeline Coating Conferences) showcasing SHAWCOR's technologies.
- Trained and certified **inspectors and applicators** across 30+ countries, strengthening technical competency in coating systems.
- Delivered **business development plans, internal audits, and client satisfaction strategies**, achieving a **100% improvement in customer service ratings**.
- Managed and mentored a team of **18 engineers and technicians**, improving operational performance through structured evaluation

COATING CONSULTANT

OMAN GAS COMPANY

MUSCAT, OMAN | 2016 – 2017

- Supervised **contractor coating operations** across Duqm & Salalah projects, enforcing compliance with QA/QC and HSE frameworks.
- Managed **factory linepipe coating qualifications**, overseeing testing and inspection of coatings for offshore and onshore pipelines.
- Conducted **technical review and approval** of subcontractors' coating procedures and material submittals.
- Ensured **daily reporting, compliance monitoring, and contractor performance evaluation**.

COATING ENGINEER

TOCO / WILLBROS KAWTHER PROJECT

MUSCAT, OMAN | 06/2006 – 12/2006

- Planned and supervised **pipeline coating qualification procedures** for 18" and 36" PDO pipelines.
- Trained and certified **field joint coating technicians**, ensuring competency in handling coating systems for onshore pipelines.
- Conducted **daily field inspections** of coating applications, surface preparation, and material handling.
- Performed **site and laboratory testing** to verify coating quality and durability.
- Coordinated with contractors and client representatives to ensure **project milestones and QA/QC requirements** were achieved.

QA COATING INSPECTOR

GL / TOTAL DOLPHIN PROJECT (OFFSHORE)

DOHA, QATAR | 11/2005 – 05/2006

- Carried out **daily inspections** of 48" offshore gas pipeline coatings and subsea painting activities onboard **SAIPEM C6 barge**.
- Verified compliance of **field joint coatings, blasting, painting, and environmental controls** with Dolphin Project offshore standards.
- Ensured adherence to **HSE requirements**, performing **quality surveillance** throughout offshore operations.
- Monitored contractor performance, documenting **non-conformities and corrective actions** for timely closure.

THIRD-PARTY CLIENT COATING INSPECTOR

GL / SHELL SAKHALIN PHASE 2 PROJECT (OFFSHORE)

RUSSIA | 05/2005 – 11/2005

- Supervised **pipeline field joint coating and subsea structures painting** activities onboard **SAIPEM SEMAC1 barge**.
- Acted as **third-party inspector** for Shell USA, validating contractor adherence to international coating standards (NACE, ISO).
- Oversaw **FBE, PP, and field joint coating application** in extreme offshore environments, ensuring coating integrity under Arctic conditions.
- Reviewed and approved **contractor inspection reports, ITPs, and test results** to maintain compliance with Shell requirements.

QC ENGINEER / PAINTING INSPECTOR / WELDING INSPECTOR – VARIOUS INSPECTION AGENCIES

EGYPT | 07/1999 – 04/2005

- Delivered **QA/QC inspections** for major oil & gas operators (GUPCO, SUCO, BAPETCO, MIDOR Refinery, PETROBEL) across **refineries, offshore platforms, subsea structures, and gas plants**.
- Conducted **welding inspections** for onshore pipeline fabrication, storage tanks, and maintenance works, ensuring adherence to **ASME/API standards**.
- Performed **painting/coating inspections** for refineries and offshore projects, validating surface preparation, application processes, DFT checks, adhesion testing..., and compliance with specifications.
- Executed **site and laboratory testing** for coating materials, ensuring compliance with **ISO and NACE standards**.
- Coordinated with multiple inspection agencies including OPCO, Moody International, and Quality Control, providing **third-party verification** of works.
- Acted as a **freelance inspector**, gaining cross-project exposure to different coating systems, welding procedures, and QA/QC requirements.