

Ahmed AbdelAty

Instructor

Career synopsis

An accomplished Mechanical Engineer and Technical Instructor with over two decades of expertise in rotating equipment, reliability engineering, and asset integrity management across the oil and gas, petrochemical, and industrial sectors. Recognized as a Certified Asset Management Assessor (CAMA-2) and Machinery Lubrication Engineer (ICML), with advanced certifications in Vibration Analysis (CAT III), Thermography, and RCM.

An experienced instructor, having designed and delivered specialized training programs in vibration analysis, dynamic balancing, reliability-centered maintenance, asset integrity, and mechanical systems for leading clients including ARAMCO, SABIC, ADNOC, KNPC, OQ8, and ENI. Adept at customizing training to client-specific assets and challenges, and mentoring engineers and technicians in applying reliability engineering tools and diagnostic techniques.

Qualifications:

Certified CAMA-2 – Certified Asset Management Assessor

Certified AIMS – ISO Asset Integrity Management System

Certified Vibration Analyst – Level III

Certified MLE – Machinery Lubrication Engineer

Certified MLA-II – Machinery Lubrication Analyst

Certified Thermographer – ITC

Certified RCA Practitioner – American University in Cairo (AUC)

Professional experience

January 2024-Until now - Lead Rotating and Reliability Engineer - Saudi Aramco Base oil Company, Saudi Arabia

- Personnel training
- Knowledge test / assessment

January 2019-January 2024 - Mechanical Technical Authority - Shell Egypt Jv, Egypt

- Curriculum development
- Personnel training
- Knowledge test / assessment

January 2014-January 2019 - Lead Rotating equipment Engineer - Weir oil and gas, Iraq

- Curriculum development
- Personnel training
- Knowledge test / assessment

June 2024-Until now - Lead Reliability and Rotating engineer - Saudi Aramco Base oil Company, Saudi Arabia

- Provide expert technical guidance for operation, maintenance, and optimization of all rotating equipment (compressors, pumps, turbines, blowers, mixers, auxiliaries).
Participated in Factory Acceptance Tests (FATs), site inspections, and performance testing for major rotating equipment packages.
Review MOC (management of change) and EWR (Engineering Work Request) according to Aramco standard
Lead and execute overhaul, inspection, and maintenance of centrifugal pumps (Sulzer, Ebara, ITT), reciprocating pumps (Lewa), screw pumps, and gear pumps (Sundyne, Viking).
Perform major overhauls on centrifugal compressors (Siemens, Atlas Copco), reciprocating compressors (Ariel), and both steam and gas turbines (GE Frame 5, Solar).
Develop and implement maintenance schedules (annual inspections, complete overhauls, preventive/predictive maintenance).
Manage spare parts strategy and inventory optimization for critical rotating equipment.
Conduct advanced machinery diagnostics using System 1 EVO
- Curriculum development
- Personnel training
- Knowledge test / assessment

Education and qualifications

Type	Name
2002 - 2007, Bachelor	Ain Shams university, Mechanical engineering
2014	Vibration institute, Cat 3 vibration analysis, 40 hours
2019	Ite, Thermography level 1, 40 hours
2020	Noria, MLE machinery lubricant Engineer, 40 hours
2025	Wipac, CAMA 2, 40 hours
2024	ISO, AIMS ISO 55000, 40 hours
2016	AUC, FMEA, 40 hours
2017	AUC, RCA root cause analysis, 40 hours

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