Job title: instrument Analyzer Technician

Abdulaziz Khalifa Al-Maidani

**PRESENT ADDRESS:-**

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**Nationality :- Saudi**

**PROFFESION: - Analyzer Technician Offshore & Onshore Oil & Gas field, Petrochemical and Chemicals Industries,**

**CARRIER OBJECTIVE:-**

Looking a Suitable job in Analyzer Department as per my knowledge and Experience where I can prove my skills and Performance for the company.

**Summary,**

My education background is **03 Year’s** **Diploma im power electric**  that I took through Government college of technology at Dammam . I had working experience with field Online Analyzers, Critical Analyzer’s which Measure the Chemicals Properties, field Analyzer, and fire and gas system in oil and gas Offshore & Onshore plants Petrochemical plant. The jobs mostly are Preventive Maintenance, Corrective Maintenance where validation, calibration, troubleshooting and servicing are required for the Analyzers. All of these jobs will never be organized without SAP where notification, work order, spares reservation and requirement from other discipline are plan in SAP before execution.

**EDUCATION & QUALIFICATION:-**

* **03 Years’ Diploma of** Electrical Engineering .
* Degree is Power of Electric college of technology at Dammam .
* **Management & skill**.
* **English** language certification level 3. From -apri-2017. Institute. Hadeel alrjhi training cente.
* **Technical Report Writing** course certificate one week in may-2018. From applied training centre.
* **Communication skills** course certificate one week in September-2015. From Al-tawail management training cente.
* **Technical courses :**
* **Oxygen Analyzer** model 2200.course certificate one week from Servomex in 2014 .
* **Liquid Analyzer** course certificate one week from Yokogawa in 2015.
* **Gas Chromatograph** course certificate one week from Al-mnai installation company training center in 2015.
* **SAFETY** :
* HSE (Health Safety Environment) TRANING FROM SAUDI KAYAN,
* First aid course certificate one week from sharq central training. In 2014.
* Work at height course certificate one week.
* Heat Stress. SHEM 12.06 .in 2015.
* **Permit application of SHARQ** .
* **HSE PROFICIENCY**.
* **JSA Job Safety** **Analysis.**

Cold Work permit – Hot work permit SHEM 12.10

Authority and certificate from sharq central training.

**PROFESSIONAL EXPERIENCE: -**

**I have more than 10 Years’ experience in Analyzer & quality Field maintenance trouble shooting, commissioning and calibration and erecting works in Analyzer field regarding OFFSHORE & ONSHORE OIL & GAS plants and Wells, Petrochemical and Chemical Plants.**

**PROFESSIONAL EXPERIENCE DETAIL DURATION:-**

* Presently working as ANALYZER **Technician** in **QA Department** with Saudi kayan  **PETROCHEMICAL COMPANY A SABIC AFFILIATE, jubail SAUDI ARABIA From 01-April-2010 to 2012.**
* Worked as **ANALYZER Technician** in **QA Department** with **SABIC, Sharq PETROCHEMICAL COMPANY A SABIC AFFILIATE, JUBAIL SAUDI ARABIA From 28-08-2012 to 21-jun-2020.**

**Responsibilities:**

* Maintenance of on-line analyzers like GC (SIEMENS-Maxum-II), ABB GC & Yoko Gawa GC Analyzers,O2, CO, TOC, Moisture,
* Performed daily Monitoring of critical Analyzer & Sample Condition System and Make report as per daily base.
* Maintain and keep record for Calibration cylinders in field.
* Prepared calibration sheet in Meridium and close job in SAP System.
* Worked on sample condition system of Analyzers. (FLP, PRP, Sample Loop & SCS).
* Gas Chromatograph - YOKOGAWA MARK 1000 II, ABB 3100, 2000 VISTA.
* H2S/SO2 Analyzer - Ametek (Air Demand) 900 PD, CEZ1
* SO2 Analyzer - (CEMS) Ametek Model - 920 PD, CEZ1
* Sulphur Pit Analyzer Ametek Model - 930 PD, CEZ1
* Moisture/Dew Point Analyzer - Ametek - 3050OLV
* Moisture Analyzer - Panametrics - Image Series - 1
* Oxygen Analyzer - Ametek - 2000 WDG IV, SERVOMEX, Model 1100, 2200 Oxygen Analyzer.
* CO/CO2 Analyzer SERVOMEX 2550 Model.
* PH Analyzer - Rosemount Model 5081 pH/399 and Yoko gawa Ph. Analyzer.
* Conductivity Analyze- Rosemount 5081 & Yoko gawa.
* Dissolved O2 - YOKOGAWA Model EXA 00202 & Endress Hauser Analyzer.
* O2 in Flue Gas - IFT 3000
* O2 Trace Analyzer - Model 4100c
* Air Quality Monitoring System (AQMS) ABB A02000.
* PH,CEMS,AMMONIA,THC,UV,SILICA,SODIUM,HYDROGEN,DENSITY,VISCOSITY, and Conductivity for below different Types of Plants,
* Maintenance of field gas and fire detectors of Detcon (IR700, FP-524C).Honey well gas detectors compostable & toxic gas & H2S .
* Also performed calibration and Maintenance of GT detector MSA Model.
* Attended PM, CM jobs as per SABIC safety procedures.
* Update calibration report in Meridium as per daily PM Activities.
* Updated records in SAP System.

**I am involve in -**

**Preventive Maintenance, Routine Breakdown Maintenance, Overhauling for Analyzers, Corrective Maintenance and installation of Analyzer’s.**

* Preventive and Corrective Maintenance, troubleshooting and repairing problem related to On-line Analyzer’s
* Give feedback to supervisor on solved/unsolved problem, recommendation for improvement and Maintenance Plan Strategy adjustment
* .Do inspection and commissioning on new installed equipment.
* Deal with SAP for maintenance planning including the accepting notification, work order creation and spare parts reservation.
* Prepare for shutdown activity related to field analyzers including the task to be done, spare part requirement and manpower.
* Prepare maintenance procedure including the Job Hazard Analysis to ensure all jobs done in a safe manner
* Identify the bad actor among the analyzers and sample handling system then perform root cause failure analysis for problem solving.
* Perform troubleshooting on either analyzer equipment, sample handling system effectiveness, installation of the equipment, environmental condition or process related.
* Review and modified the sample handling system to improve analyzer’s performanc
* **WORKED ON BELOW TYPE OF ANALYZERS.**
* Gas Chromatograph: **Siemens Maxum II Advance**, Teledyne Analytical Instrument 4020B series, Applied Automation Inc.
* Oxygen Analyzer: Zirconia, Paramagnetic and Electrochemical type, Rosemount, Servomex, Teledyne Analytical Instrument 3000, ABB, Xentra, and Ametek, Thermox Series2000.
* Hydrogen Analyzer:
* CO2 Analyzer:
* Ammonia Analyzer, NH3, Rosemount EXTREME.
* Methane Analyzer, CH4, Rosemount EXTREME.
* CO Analyzer: Xentra
* Dust Analyzer. MIP, 3086 EPA.
* Total Hydrocarbon Analyzer: Teledyne Analytical Instrument 4020B.
* Gas Detectors (H2S,%LEL,Amonia): Zellweger,G.M,Autronica,Crowcon
* Ph. Analyzer: Rosemount ,Emerson,Yokogawa,pH202,
* Conductivity Analyzer: Rosemount, Emerson, 5081P.Yokogawa,
* Moisture Analyzer, 5830, AMETEK Process Instruments.GE Parametric type Analyzer’s
* Dissolved Oxygen Analyzer: Rosemount, Emerson and Endres Hauser.
* UV Analyzer Ametek Process Management. IPS-4
* Total Organic Carbon Analyzer: Biotector (TOC).
* Continuous Emission Monitoring System (CEMS):, Yokogawa.
* H2S Analyzer: Ametek, Houston Atlas.

**These are TOP Analyzers are using different process detail below by Plant name,**

**1)-**PHENOL PLANT.

**2)-**CUMIN PLANT.

**3)-**BPA PLANT (BASE PHENOL ACID).

**4)-**EC/DMC PLANT (ETHYLENE CHALORIDE & DY METHENE CHALORIDE).

**5)-**AMINE PLANT.

**6)-**NDA PLANT (NATURAL DETERGECAL AL COHAL PLANT).

**7) -** LDP PLANT (LOW DENSITY POLY CARBONATE).

**8)-**HDP PLANT (HIGH DENSITY POLY CARBONATE).

**9)-**PC & DPC PLANT (POLY CARBONATE & DY POLY CARBONATE).

 **14)-**ACETIC ACID PLANT.

 **15)-**EG & UTILITY PLANT.

 **16) –** PE,POLYETYLEN PLANT1&2.

Worked all plants, which are mention the top all time we first prefer the safety and perform the job in safe manner and we try to get more accuracy of the analyzers.

 **ACHIEVEMENTS AND APPRECIATION.**

**I received Several times appreciation letter from Saudi kayan,06 times from “QA senior Manager” as best performance and 01 time from “operation senior Manager” for successful completion of commissioning job for Online Analyzers with safe manner.**

 **SHARQ EXPERIENCE OFFSHORE AND ONSHORE PETROCHMICAL FIELD:-**

**Installation,Calibration, Maintenance, Troubleshooting & Loop checking :-**

* I was involved Commissioning, Maintenance of all instruments,Analyzers & control equipment’s Calibration of Pressure, Temperature, Flow, DifferentialPressure, Level Transmitters and all types of gauges & switches Calibration And Maintenance All types of Control valves ,Having good knowledge in servicing and calibration of Smart instrument devices with communicator, and servicing calibration of Pneumatic, Hydraulic, operated valves and accessories (Positioner, Booster relay, Lock up Relay, Transfer valves and I/P).Trouble shooting of motor operated valves (MOV)Pneumatic valves and Hydraulic valves and IGVConfiguration and Trouble Shooting of instruments& controllers And HMI **.**Calibration of (GDS,GDH,GDOT&R,FD) smoke and Gas Analyzer ,AT Liquiline conductivity analyzer(end+hus).Checking of System signals A/I ,A/O, D/I, D/O and troubleshooting of System I/O cards. Check and change the graphics & Logic of different Process & close loops. **(Hydro Carbon, PH,Chlorine,O2 Dust analyzer, Moisture analyzer, PH analyzer, Conductivity analyzer and O2 Analyzer’s**
* Installation, checking and troubleshooting of Instrumentation & Control system in process.
* Calibration, maintenance and troubleshooting of compressor & turbine (solar) instruments which included checking of solenoid valves, pressure switch, vibration probes, PR oximeter, vibration monitor, Rtds,Thermocouples, Fire & Gas system etc.
* Good knowledge of understanding of P&I Diagram, Loop Drawing(ILD), Sequence Logic, Relay Logic, Electrical Diagram.

**Maintenance & Commissioning Function Test:-**

* I worked with vendor at F&G, Loop check, Analyzer Loop check and sampling system of Analyzer, Trouble shooting

 AndCalibration of all Instruments & Analyzer’s

* Worked on Air Compressor Unit(FS Elliott USA)

***DRAWINGS:***

 I have command on Cause & Effects Charts, P&IDS, Loop drawings, Logic drawing Ladder diagrams

 And Function Block Diagrams.

***TEST EQUIPMENT & CALLIBRATOR USED:***

* Ph. Portable Analyzer for Ph. Measurement and Conductivity Measurements,
* HART Field Communicator 375(EMERSON UK).
* HART Field Communicator 475. (EMERSON UK).
* TK 3 Vibration Master.
* DRUCK DPI 610 I ,
* IMETEK JOFRA (ASC300)
* IMETEK JOFRA PNEUMATIC Equipment
* Fluke 79-iii Series Millimeters & SOURCE,
* *Worked on Temperature Bath DRY-BLOCK CALIBRATOR, Temp Range-Ambient +5 To 430 c’(800F’),*

*Model-UCAL 400+ TECHNE, Sr No.0312-871 V-120-50-60HZ Made In USA.*

* *ASHCROFT PORTABLE GAUGE TESTER Max-Press Range.10, 000PSI (Ser No.2BH-2I457.*
* *Check and correct Level, Pressure, and Temperature and Flow instruments as per requirements.*
* *Compressor Control System (CCC Anti Surge System, Wood Word 505) turbine speed control system.*

***COMPUTER KNOWLEDGE:***

* + - *MS Windows Win 2007, Server.*

*MS Office, XP (Word, Excel, Power point).*

*Adobe Photo shop*

*In page URDU*

*Installation & Internet Browsing*

* I have good awareness of working according to PTW instructions and have knowledge of Cold, Hot, Deep Excavation and Confined space entry, PTW Procedures according to HSE standards.

***APPRECEATION LETTERS.***

* I received Appreciation Letters from **, sharq, SABIC SAUDI KAYAN &** as Excellent Performance hard work & EHSS and completed jobs as safe manners.

***REWARDS:***

 *Get reward from* ***, SAUDI KAYAN &SHARQ*** *Safe work and Drawing Competition*

**PERSONAL DETAIL:**

**Father’s Name : - Khalifa**

**Date of birth : - 13-07-1985**

**Religion : - ISLAM**

**Marital Status : - Married**

**Nationality : - Saudi**

**Driving License : - Saudi Arabia valid up to Oct-2027.**

**Languages : - ENGLISH, ARABIC,**