

Arsalan Hassan

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I'VE BEEN WORKING FORM THE LAST **FIVE (5+)** YEARS IN GULF COUNTRIES AND OVER FOUR (4+) YEARS ON A COMBINED CYCLE POWER PLANT AS AN OPERATION ENGINEER. I'VE A GOOD UNDERSTANDING OF ELECTRICAL DRAWINGS, COMPREHENSIVE THEORETICAL AND PRACTICAL KNOWLEDGE OF ELECTRICAL SYSTEMS, AND POSSESS EFFECTIVE COMMUNICATION SKILLS.

ACADEMIC BACKGROUND

BACHELOR – 4 YEARS ELECTRICAL & ELECTRONICS	BAHRIA UNIVERSITY	YEAR COMPLETED: 2014	CGPA:2.6
DIPLOMA – 3 YEARS INSTRUMENTATION	PAK-SWISS TRAINING CENTER KARACHI	YEAR COMPLETED: 2009	GRADE: A
SECONDARY EDUCATION- 10 YEARS (SCIENCE)	BRILLIANT SCHOLARS' ACADEMY	YEAR COMPLETED: 2005	GRADE: A

Employment Timeline:

- SEPCO3 POWER PLANT CONSTRUCTION CORPORATION AS AN **OPERATION ENGINEER** (ELECTRICAL), RAS ALKHAIR, SAUDI ARABIA (14 NOV. 2017 - PRESENT)
 - DUBAI PETROLEUM ESTABLISHMENT AS AN **INSTRUMENT TECHNICIAN**, DUBAI, U.A.E (30 APRIL TO 10 NOVEMBER)
 - LUCKY CEMENT LTD. AS AN **INTERNEE**, KARACHI, PAKISTAN (04 JUNE 2013 TO 18 JULY 2013)
 - PAKISTAN STEEL MILL AS AN **INTERNEE**, KARACHI, PAKISTAN (6 AUGUST 2012 TO 31 AUGUST 2012)
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PROFESSIONAL CERTIFICATIONS:

- INSTITUTIONAL OCCUPATIONAL SAFETY AND HEALTH(**IOSH**)MS VERSION 4.0
- FIRST AID AND CPR CERTIFICATION
- TEKTRONICS **OSCILLOSCOPE** TRAINING BY DUBAI PETROLEUM
- TRAINING OF ULTRASONIC LEVEL **TRANSMITTERS**(ROSEMOUNT)
- ATTEND FLUKE CORPORATION **SEMINAR** AS AN EMPLOYEE OF D.P IN DUBAI CROWN HOTEL
- ATTEND **SEMINAR** ON ENTREPRENEURSHIP AT BAHRIA UNIVERSITY
- NETWORKING AND TELECOMMUNICATION BY NAVTEC (GOVERNMENT OF PAKISTAN)

EMPLOYMENT DETAILS:

SEPCO#3 Combined Cycle Power Plant 3200 MW (SAUDI ARABIA) JOB TITLE: OPERATION ENGINEER

14TH NOVEMBER 2017 TO **PRESENT**

On January 2019, I was appreciated by the organization as a **‘Progressive Employee of SEPCO3’**

Hands-on experience and responsibilities are as follows:

- Coordinate with Saudi Electric Company (SEC) for increasing / decreasing the power, Scheduling of loads and for maintenance activities then plan the operation according to the need.
- Keep coordination with Saudi Aramco regarding the gas supply (methane gas) if the pressure goes down below the required limit, then perform the operation to start the gas compressors and if the supply pressure continues to decrease then switch the turbine (SGT6-5000F) supply on diesel fuel.
- I'm responsible for all electrical operations and Inspection of sites such as start-up and shutdown of electrical equipment like Step-up Transformers (18KV to 380KV, Hyundai TL2050), Distribution transformer (6.6KV to 400V), Auxiliary transformer (18KV to 13.8KV), and changeover the load of busbars (Siemens Simo-prime) for maintenance activity and in case of a shutdown.
- Inspection and Operation of static frequency converter (SFC) and excitation (SEE) transformers especially for the start-up of a turbine and control of Power-factor by excitation voltages.
- Perform Inspection and Operation of feeder water pumps, gas compressors, and fuel oil pumps as required. Before start-up perform the insulation test of motors and busbars to make sure equipment will run normally.
- Write the procedure and perform the Inspection and operations of UPS in different modes.
- Read log sheets of the previous shift in CCR, which indicate operational work and parameters of equipment like Powers, amperes, temperatures, pressures (SF6), humidity to make sure the readiness of all essential load.
- Regularly perform inspection of the site to observe the operation of equipment and machinery, generators, transformers, emergency generators, etc., as well as, recording & reporting any abnormalities, such as oil leakage, high temperature, and abnormal noise, to the shift supervisor.
- Isolate equipment for maintenance work, including GIB (380KV), GCB (18KV), Transformers, and Busbars, and communicate all information with Saudi electric company and with shift supervisor about the electrical isolation. Strictly flow permit to work system and lock-out and tag-out the busbars and transformers.
- Ensure a safe working environment is always adopted and any potential health & safety hazards should be reported to the department for appropriate corrective action.
- In the end of every month, perform the Inspection of all electrical tools and master calibrators.
- Carry out other similar duties, such as calculating running hours of various equipment to obtain historical data for maintenance purposes and changeover the load as per schedule.
- Support the shift supervisor for the monitoring of SCADA operations.
- According to the Schedule, Check the insulation of the Generator rotor, Busbars, Cables, and motors.
- Start-up and shutdown the Black Start Diesel Generators (13.8 KV) to make sure of the readiness. As per schedule, start on 22 and 23 of every month

- Ensure the readiness of Emergency Diesel Generator (400V) and as per schedule starts every Wednesday
- Operate Transformers like energize, de-energize, change to isolation position, and maintenance position as per work situation.
- Work on GIB (Gas Insulated Breaker) which is filled with SF6 sulfur hexafluoride gas to prevent high voltage electrical arching. Perform troubleshooting for the rectification of the alarm.
- Maintain standby position of EDG (Emergency Diesel Generator) rated 400V output. It supplies power to the turning gear (low/high speed) of the Gas Turbine. Once a week, Start/Stop all EDG to make sure its operation.
- Keep in coordination with Saudi Electric Company (SEC) and ARAMCO regarding power generation and gas consumption.
- Participate in electrical training on sites, every month.
- Daily inspect the transformers by checking its parameters like the temperature of oil and winding, oil level, leakage, and its sound. Make sure cooling fans start when the temperature reaches alarming values.
- Daily inspect battery rooms through thermal camera to check the temperature of individual cells, detection of losing connections and electrolyte level of batteries.



DUBAI PETROLEUM
JOB TITLE: INSTRUMENT TECHNICIAN

30RD APRIL 2015 TO 10TH NOVEMBER 2015

- My core responsibilities, the maintenance and calibration of the transmitters like Ultrasonic level transmitters (Rosemount/VEGA), Differential pressure transmitters, Level switches, current to pressure (I to P) converter, gas detectors (QRAEii), and Mustimeters (Fluke 187/287/289) also provide calibration certificates as per company standard.
- Participated in Jalilah A and B project in the 'Fateh Field'. I was responsible for the calibration of transmitters and designing tags through Roland or the laser engraving machine.
- Installation and vibration testing of Electrical motors.
- Installation and maintenance of Variable frequency drives (VFDs) in AC motors' panel.
- Insulation and maintenance vibration testing of electrical motors (Bentley Nevada System).
- Installation of RTDs/thermocouples and vibration probes on Philadelphia compressors.
- My main jobs are Repairing, Maintaining, Overhauling, Calibration & installation of all types of field and Control room Electronic & Pneumatic instruments.

- To diagnose the cause of Instrumentation malfunction or failure of operation of all instrumentation systems as well as equipment, such as a transmitter, RTD, thermocouples, positioners, SOV, relays, switches, control, and monitoring devices and to take corrective measures.
- Maintenance, Troubleshooting of Field Instruments including E&H, Yokogawa, Siemens, Druck, ABB, ASCO instruments F&G System including Point Gas detector (Drager, General Monitor, H2S detector, Manual Call Point, Open Path Gas detector (Drager, General Monitor), Sounders & Beacon, Fire Detector
- Pressure switches (Diaphragm & Bourdon tube type), Level switches (Ultrasonic probes and Float type), Flow switches (Paddle type), and Temperature switches (Bimetallic and Capillary types).
- Magnetic Pickups (active and passive types), RTD, s (PT100 and PT1000), UV Electric-type sensors, etc.
- P/I, I/P (Rosemont, Foxboro and Fisher) and I/H Converter.

FINAL YEAR PROJECT

AUTOMATIC POWER FACTOR IMPROVEMENT THROUGH PLC WITH THE CO-OPERATION OF **LUCKY CEMENT LTD.** AND SPONSORED BY BAHRIA UNIVERSITY KARACHI, PAKISTAN

MISCELLANEOUS SKILLS:

- DRIVING LICENSE OF PAKISTAN AND SAUDI ARABIA.
- GOOD COMMAND ON MS OFFICE (WORD, EXCEL, AND POWERPOINT).
- FLUENT IN ENGLISH, GOT 6 BANDS IN IELTS (INTERNATIONAL ENGLISH LANGUAGE TESTING SYSTEM).
- HIGH MORAL VALUES, GOOD ATTITUDE, AND MANNERS OF GROUP DISCUSSIONS.