

SHAMAS UR REHMAN (MIET)

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CAREER OVERVIEW

- 1. Saudi ARAMCO (Saudi Arabian oil Company) Feb,26 2016 to date**
1-Senior Technician –Electrical Power Relay (Crew Leader)
2-Certified Mentor (Electrical Relay/Protection Team)
- 2. British Petroleum E&P Inc. (Nov,16 2011 to Feb,25 2016)**
Electrical Maintenance Technician-1. (Field Operation Department) – 16 ON/13 OFF,
United Energy Pakistan (UEP) assumed control of oil and gas exploration and production
assets managed by British Petroleum in September, 2011
- 3. Engro Polymer & Chemical Ltd Feb,28 2011 to Nov,15 2011)**
Senior Assistant Electrical Engineer (Electrical Maintenance Department) –Full
time (Petrochemical plant, EDC/VCM.CA.)
- 4. Pak Arab Refinery Ltd (PAR (March,2008 to Feb2011)**
Electrical Maintenance Technologist (Electrical Maintenance Department) –Full time
(PARCO is an Oil refinery-Pakistan ,Abu Dhabi Joint Venture)
- 5. Pakistan International Airline Corporation (PIAC.COM) (2007-2008)**
Avionics Technician –Airbus 310/320, Boing 747/777

PROFESSIONLA MEMBERSHIP

- Member of institute of Engineering and Technology (IET) -1100394868
- Professional Engineering Technologist from National Technology council Pakistan.

PROFESSIONAL CERTIFICATION

1. Electrical Hazard Reorganization Certification from Saudi Aramco.
Work higher than 240V up to 132KV
2. Electrical Mentor Certification from Saudi Aramco.
3. H2S BASIC from Saudi Aramco.
4. Saudi Aramco Work Permit receiver Certification.
5. Heart saver, First Aid Certification from Heart society USA.
6. Process Hazard recognition and Control, Saudi Aramco.
7. OFFSHORE safety fundamental from Saudi Aramco.
8. Emergency response team member from PARCO oil refinery.

QUALIFICATION:

- **04 Years Bachelor of Technology Degree -B.Tech (Hons) Electrical** from Bahauddin Zakariya University Multan in 2010 with 1st division.
- **03 years Diploma of Associate engineer in Electrical Technology** from Punjab Board of Technical Education Lahore In 2003-2006 with 1st division

COURSES & TRAINING:

- ELECTRICAL EQUIPMENT : AC and DC Motors from IHRDC USA,2014
- ELECTRICAL EQUIPMENT: Transformers, Breakers and Switches from IHRDC USA, 2014.
- ELECTRICAL MAINTENANCE: Troubleshooting of Electrical Circuits from IHRDC USA, 2014.
- IMS Training on ISO 9001: 2008, ISO 14001: 2004, OHSAS 18001: 2008
- PTW FROM PARCO,ENGRO,EXTERAN,Aramco
- COW & 8 Golden safety Rule from BP.
- Emergency Response Team, PARCO 2008
- PLC from AVENCON Karachi,2013
- Health, Safety & Environmental (HSE) training in PARCO (MCR)

PERSONAL DATA:

Year of Birth	:	Sep 01, 1987
Marital Status	:	Married
Nationality	:	Pakistani
Religion	:	Islam

1-SAUDI ARAMCO, Saudi Arabia.

Yanbu North/South Crude Oil Terminals, Yanbu Oil Refinery, NGL Fractional Plant, Midyan Gas processing plant, offshore berths, Tabuk/DUBA/YANBU/Medina Bulk plants.

Job description & Responsibilities:

- Assist and working as power system Foreman as per Manager direction.
- Reviewing and participating in project proposals and detailed designs packages for new plants for the testing, commissioning and energizing of new facilities.
- Update and maintain engineering documentation and drawings.
- Working with maintenance Planning unit to scheduling daily and shutdown activities.
- Participating in maintenance review committee (MRC) to improve maintenance practices based on vendor recommendations or the changes in the international practices
- Prepare/submit the isolation request for preventive maintenance of equipment's.
- Maintaining and supervising the Electrical Workshop.
- Analyze system performance and find solutions for saving power/energy. Ensure quality, cost-effective, and timely solutions to any upgrade under company full HSE compliance and meeting company KPI's.
- Spare Ordering and Maintain Inventory.
- Provide technical solutions on the base of maintenance defect reports (MDR).
- Reviewed/implementation protective relay settings with PSMS record update.
- Testing and troubleshooting of transformer TAP changer and associated devices.
- Interlocking Schemes, Control and alarm schemes, Synchronization scheme
- Conducted re-commissioning of HV & LV Electrical protection system of Yanbu Refinery which include coordination studies and modification of existing protection schemes (ground and phase, transformer differential, bus differential, ATS Schemes, directional and motor & generator protection) in compliance with latest Saudi Aramco standards.
- Participated with vendor specialist for over-hauling of 115 kv gas insulated switch gear (GIS) at Yanbu Refinery.
- Work Order history, Tracking, Material Management by SAP

- Worked with Crude oil terminal offshore berth rehabilitation project team for installation, testing, commissioning of 110KV GIS, 13.8KV, 4.16KV, and 480V equipment's.
- Participated in several investigations related with electrical faults includes cable faults, short
- UPS Familiar with Operation and troubleshooting of 80KVA, 20KVA UPS, Rectifier, Battery Bank, Inverter, and their Static Switch, Corrective Maintenance & Troubleshooting of direct current board.
- Knowledge of SLD & Schematic, PLD (Protection logic diagram) ANSI codes and symbols.
- Testing and configuration of control IEDs using tool kit software's like,PCM(ABB),Energista (GE),DigSI(Siemens), AcSEerator (SEL),Basler Electric.
- Testing of troubleshooting of protection function of relays like 87, 27, 59, 50/51, 50G, 81.
- Knowledge of operating of primary & secondary injection test kits like ODEN, FREJA, OMICRON, SR98, SMRT MEGGER and CT Analyzer.
- Detailed worked on system interface schematics local and remote.
- Assist in the training, developing, and mentoring of other team member's including Saudi Nationals
- Troubleshooting, PM/CM, Upgrading, schedule development and Implementation of following equipment's
 1. Switchgear 480V,4.16KV,13.8KV,110KV Make by GE,SIEMENS,ABB,CUTLER HAMMER WESCOSA,ARABIAN POINT 8,MITSUBISHI
 2. Transformers 480V,4.16KV,13.8KV Make by OSAKA,ABB,BRUSH,MITSUBISHI,WESCOSA,WESTINGHOUSE ,HUNDAI
 3. GIS 110KV Make by ABB,SPRECHER+SCHUH
 4. Battery Charger and UPS Make by Gutor,BNNING,LEMARCHE
 5. Breakers 480V,4.16kv,13.8KV Make by GE,Cutler hammer, Mitsubishi ,Powervac,Powell,Arabian Point 8,Wescosa,L&T
 6. Protection Relays Make by GE (Electrocmechanical,Multiline family),ABB,BASLER ,SEL,SIEMENS,ALSTOME,AREVA
 7. HVAC (1.5 up to 24 Ton) 480V three phase Make by ZAMIL,CARRIER,YORK,TRALE

2-British Petroleum E&P Inc (United Energy Pakistan)

(Upstream wellhead ETF, Amine Plant, Gas Processing facilities,)

EXPERIENCE DETAILS:

Hands on experience of following equipment's, (Maintenance & Troubleshooting)

- Gas generators up to 1.5 MW and Diesel generators up to 250KW. (Caterpillar, Waukesha).
- 6.6KV ,11KV SWGR maintenance and troubleshooting
- Motor Control Center's (MCC's) (Westinghouse, Cutler Hammer, etc.,)
- Protection Relays. Protection for Low voltage system. And motors multi protection relays.
- Breakers (ABB,SIEMENS)
- Soft Starters (BENSHAW, Siemens, Cutler Hammer, etc.,)
- Uninterrupted Power Supply (UPS) (HDR, AMETEK, etc.)
- Static / rotary battery charger / regulated battery chargers.
- FW MURPHY: A renowned name in E & P for Engine Control System.

- Maintenance troubleshooting of all types of Microcontrollers (Tattletale, TTDJ, TTD-H, Millennium, etc.), switches, electrical accessories, gauges, etc.
- ALTRONIC: A renowned name in E & P for Ignition and Control System. Comprehensive knowledge of all types of ALTRONIC Ignition System, Engine Controls, Instruments & Microcontrollers, Altronic Control Panels, etc.
- Caterpillar, Waukesha Engine's control and monitoring.
- Fire Alarm System, Smoke detector (Gent)
- Gas compressors (reciprocating, screw, AJAX etc.,) control system monitoring and troubleshooting
- Human Machine Interface (HMI), Panel View, etc.
- Programmable Logic Controller (PLC) (Siemens SCHEMATIC, Allen Bradley, GE Fanuc, REMView etc.,) system monitoring, troubleshooting and offline / online ladder editing.
- Comprehensive knowledge of SLC 500, Micro logics 5000, RS Linx, RS View, etc.
- Engines ,maintenance troubleshooting of Engine 3406,3306,3512,3516 accessories
- PD (positive displacement) / jet pumps control system monitoring and troubleshooting

3-Engro Polymer & Chemical Ltd. (Feb, 2011 to Nov, 2011)

Engro Polymer is a Petrochemical Plant having EDC, VCM, CA, PVC, and Caustic Soda units.

Worked there as an **Assistant Electrical Engineer (Supervisor)**.

PROFESSIONAL EXPERIENCE DETAILS:

Hands on experience of following equipment's,

- TURBINES,GAS,STEAM,AND COMBINED CYCLE SYSTEM(HITACHI,HAGZON,ALSTOM) 25+25+15+5.5=70MW
- Start up and during power failure line up the loads and emergency load handling, S power Line up during power failure and provide power to emergency loads.STG start up a
- MEDIUM AND LOW VOLTAGE SWITCHGEAR& MCC
- Transformers & Breakers up to (800/5000KVA, 1600KVA/1250KVA)11KV/3.43KV, 11KV/415V,6.6KV/460V made by ABB and Siemens, oil natural and air natural as cooling media, and also work on (30/40MVA) 220KV/11KV, oil natural and air forced as a cooling media, Installation, Power Cable Termination, routine check on transformers oil level, winding temperature and status of Silica gel, Oil sampling, testing, filling and treatment, Maintenance and testing of Auxiliaries and protections. Recti former Line up, fault troubleshooting, LCP/RCP fault troubleshooting.
- Vacuum and Magnetic Air type circuit breaker preventive maintenance, repair, mechanical interlocks & mechanism, Inspection and replacement of main and arcing contacts, L.V Feeders replacement of switchgears, motors feeders fault trouble shootings, Relays parameters setting,physical health,auxiliary contact checking
- Protection Relay Protection of Medium voltage bus bars. Protection of M.V transformer and Motor feeders. Protection for Low voltage system. and motors protection relays
- M.O.V,s Rectification of motor operated valves and there problems diagnoses`, functional test of .limit switches and operation.
- PAGER SYSTEM AND FIRE ALARM SYSTEM Worked on pager control
- System, communication errors rectification and fire alarm testing and preventive maintenance
- BATTERY BANKS Different kind of battery bank used for UPS. (Made by Gutter Silicon)(Generator starting Batteries. Weekly preventive maintenance of battery bank, water level make up, reading of voltage per cell, reading of voltage whole bank, specific gravity per cell. Battery connection series and parallel.
- DRAWINGS AND MODIFICATIONS Studied the schematics drawings for the controlling of MCCs, Motors(LV,HV)Switchboards, Generators and as per requirement making modification in electrical system

- VARIABLE SPEED DRIVE MOTOR (ABB, SEIMENSE, DANFOSS) AND SOFT STARTER Familiar with Maintenance, Function parameters, Replacement of PCB.s SCR, Diodes replacement And Operation of Frequency Control VSD.Soft starter working and parameters setting.
- FREQUENTLY USED TEST EQUIPMENT Oil tester, High voltage tester, Phase sequence meter, ,IR meter 5KV/10KV, Earth tester meter,multimeter,Clamp on meter, Battery Load tester
- POWER AND CONTROL CABLES Laying (Underground, In Cable tray), Jointing Glanding and Termination of power cables up to 185mm Sq.nd synch with G.T, s Operation.

4-PAK ARAB REFINERY LIMITED. (July, 2007 TO Feb,2011)

PARCO is Pakistan largest oil refinery with capacity of 100000 BPSD.

Worked as an **Electrical Maintenance Technologist**

PROFESSIONAL EXPERIENCE DETAILS:

- Hands on experience of following equipment's
- HT/LT (220, 3.3,6.6,11,0.42 kV) Switchgears.(Areva ,Siemens)
- Protection Relays and their control circuits i.e. MSC 20 (Seg), IM 30 AE (Italy),7SJ-6001 (Siemens), MRU1-11D (Seg), IM3G-V (Italy).MI-COM (Alstom), DIN30 ,MMLG01 (Alstom)
- Manual, semi- automatic and fully automatic Power Factor Improvement Circuits.
- 220 kV Grid Station and Transmission Line.
- Transformers (ALSTOM)
- MOTORS (SIEMENS)
- Variable Speed Drives (frequency based) and DC drive systems.
- LT/HT Motors (Siemens, Fuji electric,ABB)
- LT/HT Transformer (Siemens,Alstom)
- UPS (Guttor)
- Circuit breaker,ACB,SF6 (Siemens)
- C.Ts, P.Ts.