

103368-ELE-46CDEMS-E-2006
Electrical Maintenance & Asset Integrity Dept. Head

Holds B. Sc. and M. Sc. in Electrical Power & Machines Engineering, a Post Graduate Diploma in Engineering and Natural Gas Technology and PhD degree. Has over 17 years experience in oil & gas, petrochemical, modernization of brownfield facilities and constructions fields. His experience includes design, execution, supervision, commissioning, maintenance, training and planning.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 03/03/1985
Gender : Male
Marital Status : Married
Residence : Cairo

EDUCATION

- : B. Sc. in Electrical Power & Machines Engineering, Ain Shams University, 2006
- : M. Sc. in Electrical & Power Engineering, Ain Shams University, 2012
- : Post Graduate Diploma in Engineering and Natural Gas Technology, Al-Azhar University, 2013-2014
- : PhD in Electrical & Power Engineering, Ain Shams University, 2019

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

- : Windows, MS Office, Internet

TRAINING COURSES AND CERTIFICATIONS

- : Technical and Business Courses:
 - Protection System in Industrial Power Plants Course, Alex University (2009).
 - Basic Machinery Vibrations "An introduction", Ritech (2009).
 - Variable Speed Drive (VSD) type ACS-800 operation and maintenance, ABB (2009).
 - Insulating oil Testing and Power Transformer Technical State Assignment, In Site (2009).
 - Electrical Motors, Protection, Testing and Maintenance, OGS (2010).
 - Instrumentation Installation in Hazardous Area, OGS (2010).
 - PLC (Programmable Logic Controller) Course, OGS (2010).

- Advanced Electrical Protection Relays and Systems, OGS (2010).
 - UPS and Battery system training course, Enppi (2011).
 - Individual development plan awareness program, OGS (2011).
 - Business Coaching Skills, OGS (2012).
 - Computerized Maintenance Management System (CMMS), AUC (2012).
 - Security Awareness for information Risk Management, Bapetco (2013).
 - High Voltage Authorization according to Shell Safety Rules from PDO (Petroleum Development of Oman), OMAN (2013).
 - Preparation of Professional of Management Project (PMP), OGS (2013).
 - Design, maintenance and operation medium voltage switchgears, Schneider (2013).
 - Ex01-Ex04 - Gas and Vapors Electrical / Instrumentation installation, maintenance and inspection, CompEX UK (2020).
- : Software Programs:
- ICDL (V5) (2005).
 - Calculux / Dialux (2006).
 - AutoCAD (2D) (2006).
 - SAP P6 (PM, MM / CPL Module) (2008).
 - SAP (GWOS, FSR, E-WIMS, BW) (2011).
 - CMMS (2012).
 - Primavera (P6) (2013).
 - SAP P7 (2014).
- : Special Industrial Training:
- Hazards in Process Operations (2008).
 - Practical and Theoretical Fire Fighting (2008).
 - First Aid (2008).
 - Permit to Work System, Shell Egypt (2008).
 - Chemical Awareness (2009).
 - Job Hazard Analysis (2009).
 - Driving for Excellence (2010).
 - HSE & EWR Awareness (2014).
 - H2S Awareness (2014).
 - Permit to Work System, Shell Iraq (2014).
 - Lifting and Hoisting training course (2014).
- : Certificates in English from British Council and Test of English Language Proficiency.

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Apr. 2017 till now
- Employer** : BAPETCO JV Shell Egypt, Main Office, Cairo
- Job title** : Electrical Maintenance & Asset Integrity Dept. Head
- Job Description** :
- Review and analyze the results of preventive and corrective maintenance for rotating and Static equipment for plant.
 - Managing the contracts required to keep the asset integrity in safe operation.
 - Planning and undertaking scheduled maintenance.
 - Supervising engineering and technical staff.
 - Managing budgets for existing and upcoming projects.
 - Ensuring compliance with health and safety legislation.

- Creating maintenance procedures and risk assessment for asset integrity.
- Have excellent background for area of Health, safety, security and environment (HSSE).
- Support engineering and maintenance readiness superintendent to ensure technical integrity of all equipment.
- Technical support and assurance of the design, construction, and commissioning of projects.
- Review and confirm the process and procedures are used and ensure their proper implemented by contractor.
- Monitor and report compliance to international standard and company's code.
- Have excellent background in mechanical, piping and lifting operation system.
- Review contractors reports and improve value delivered to projects with high quality.

Dates : From Sep. 2014 till Mar. 2017
Employer : Petroleum Development of Oman PDO JV Shell, Oman
Job title : Senior Electrical Asset Engineer
Job Description :

- Supervision and monitor SAP work preparation team.
- Planning and undertaking scheduled maintenance strategy through SAP.
- Preparing KPIs /shut down Plan (1, 3, 5 years) on B7 report / SAP.
- Review PM & CM for rotating and Static equipment at site.
- Responding to breakdowns, diagnosing faults and repairing equipment.
- Supervising engineering and technical staff.
- Preparation of Plant Maintenance Routine (PMR).
- Obtaining specialist components, fixtures or fittings.
- Develop maintenance strategies for equipment of respective department.

Dates : From Jan. 2012 till Aug. 2014
Employer : BAPETCO JV Shell Egypt, Main Office, Cairo
Job title : Technical Asset & Maintenance Support Engineer
Job Description :

- Supervision of operation and maintenance activities and preparing quarter reports.
- Preparing KPIs /shut down Plan (1, 3, 5 years) on BW report / SAP.
- Conduct feasibility and optimization scope of work for projects and required services includes:
 - Prepare the technical scope of work covers the service required.
 - Preparing technical criteria and estimates budget.
 - Assisting consultants, contractors and/or other concerned company personnel in scoping, defining, and planning such projects.
- Technical member in tendering process to evaluate all materials and services submitted by different bidders (general suppliers / vendors / contractors).
- Participate in the identification, evaluation and validation of plant modification / upgrading requests involving:
 - Liaising with concerned parties e.g. field and terminal operations divisions, or other engineering departments.
 - Gathering, researching, analyzing relevant data and information,

and collect field data is accurate.

- Provide the field engineers with all possible solutions after contact with all parties concerned such as contractors, vendors / manufacturers.

- Dates** : From Jan. 2011 till Dec. 2011
- Employer** : BAPETCO JV Shell Egypt, Main Office, Cairo
- Projects** : Obaiyed Oil & Gas fields, West Desert, Egypt:
- Upgrade blueprint SAP software (version 4.6c)
 - MIE "Maintenance and Integrity Execution" implemented at Obaiyed oil & gas plant
- Job title** : PM SAP Application Support (MIE Project)
- Job Description** :
- Participate in upgrade blueprint study for SAP software (version 4.6c) and MIE project "Maintenance and Integrity Execution".
 - Executing SAP system maintenance processing (PM module):
 - Create notification.
 - Create PM order.
 - Assign materials.
 - External service using existing contract or generic service.
 - Confirmation for work order.
 - Create service entry.
 - Preparing KPIs (Key Performance Indicator) through BW report.
 - Follow up the status of work orders through FSR (Facility Status Report) and deviate orders required.
 - Execution SAP report to prepare 14 days plan & 90 days plan.
 - Follow up the status of work orders of oil and gas wells through E-WIMS.
 - Accomplishments:
 - Successfully upgrade study for blueprint SAP software (version 4.6c) to next generation of SAP software to be SAP ECC6 in Q2 2011.
 - Successfully implemented MIE project at Obaiyed plant where the resulting rank is calculative with 63% in maintenance and 62% in SCE, which is the highest achieved score so far within Shell operating companies in the Middle East, while the global record is 67%.
 - Passing the training course for GWOS (Graphical Work Order Scheduler) as part of MIE project.
 - Nominated for technical assessment of MIE Project at PDO (Petroleum Development of Oman).

- Dates** : From Jul. 2008 till Dec. 2010
- Employer** : Nexen Energy ULC, PetroMasila, Mukalla, Yemen
- Job title** : Maintenance & Integrity Site Engineer
- Job Description** :
- Apply preventive and corrective maintenance plans for all rotating and Static equipment located at Obaiyed field included but not limited:
 - Medium voltage system (11KV) e.g. motors, cables, Siemens switchboards, vacuum circuit breakers and vacuum contactors, etc.
 - Low voltage system (400 V) e.g. HOLEC switchboards, motors, heaters, heat tracing, air circuit breaker, protection relay, voltage and current transformers.
 - Power transformers up to 2 MVA (PAUWELS, ABB).

- Low voltage protection-control (Clink System).
- Chargers and UPS system.
- Caterpillar diesel engine generators.
- Supervise the day-to-day operation and execution of preventive and corrective maintenance activities related to electrical plant and equipment in Obaiyed field, covering L.V/M.V motors, control circuits, transformers, cables, electrical submersible pumps (ESP), electrical protection systems, etc.
- Supervise the operation of power generation through Power Management System (PMS) covering 11KV / 415 V switchgear and transformers for load sharing.
- Ability to find and diagnose fault for equipment.
- Background in mechanical and instrumentation system.

Dates : From Sep. 2006 till Jun. 2008

Employer : Technoconsult for Electrical Engineering and Consultation Services, Cairo

Project : Millennium El Montazah Resort in Sharm El-Sheikh consists of five parts (500 guest rooms & suites), swimming pools, shopping mall, business center, multipurpose hall, roman theater, restaurants & VIP Villas, etc.

Job title : Electrical Project Engineer

Job Description :

- Apply shop drawing for electrical layout plant (i.e., lighting, power, low current, etc.).
- Supervision electrical foreman & electricians.
- Monitor and validate all electrical installation, testing and commissioning as per projects specs / drawings & international standards (e.g. MV & LV Switchgears, panel boards, MCCs, transformers, Fire Alarm, Public Address, MATV, Tele, Data, CCTV, etc.).
- Carry out the QS, invoices, As-Built drawings and deliverable to client.

PART TIME JOBS:

Dates : From Jun. 2017 till now

Job title : Technical Executive Advisor for Construction Works

Job Description : Working as Technical Advisor and consulting in different companies included but not limited the following projects:

- Faculty of Engineering – New Giza University.
- Residence building at New Giza Projects.
- Retails and commercial projects (i.e. Mall of Egypt, Almaza city center, Mall of Arabian, etc.).
- Lighting study and projects (Fouka bay, le Monte Galala, etc.).
- Food industry and hyper markets (i.e. spinneys, Carrefour, etc.).
- Faculty of Medicine – Badr University in Cairo (BUC).
- Main Administration building – Aswan University.

Dates : From Mar. 2010 till Nov. 2010

Employer : Eldawlia for Electrical Construction, 6th October City, Egypt

Project : Supply and install the electrical works for new boiler unit at Procter and Gamble factory (P&G) under supervision from Integrated Bureau for Engineering & Consultations (IBEC)

Job title : Electrical Project Engineer

- Job Description** : • Prepare the Bill of Quantity (BOQ) for all materials required in the site (Actual quantities).
 • Estimate the budget for all resources e.g. labor, materials, equipment, services & facilities.
 • Execute all electrical installation, testing and commissioning as per projects specs / drawings, international standards and electrical safety rules.
 • Monitor and validate the unit "Boiler" to be ready for commissioning and start-up.
 • Accomplishments: Successfully completed electrical shop drawings, installation, tested & commissioned and deliverables for client as per schedule baseline.
- Dates** : From Mar. 2009 till Dec. 2009
- Employer** : Seven Trent Services Company, Columbia Street – USA / Egypt Office, Maadi, Cairo
- Project** : Supply and install electrical work for new Reverse Osmosis "R.O" unit with capacity 2400 m³/day at Egyptian Fertilizers Company "EFC" located at Ain El-Sokhna, Suez, Egypt
- Job title** : Electrical Project Engineer
- Job Description** : • Size selection for power and control cables.
 • Prepare shop drawing for power system e.g.: lighting, power sockets, cable tray, cables, switchgear, power substation, single line diagram, etc.
 • Monitor and validate the unit "R.O" to be ready for commissioning and start-up.
 • Accomplishments: Successfully completed electrical shop drawings, installation, tested, commissioned and deliverables for client as per schedule baseline.

CONFERENCES AND PUBLISHED RESEARCH:

- Published technical research entitled: "Enhancement of Flashover Voltage for Polymer Nanocomposites in High Voltage Applications" in international Journal of Electrical Engineering and Technology (IJEET), Volume 9, Issue 6, November – December 2018, pp.24-34; ISSN Print:0976-6545, at IAEME Publication 2018.
- Participated and presented presentation under the title: "Perfection Characteristics of Nano Materials for Electrical Insulators" at International Conference on Recent Innovations in Engineering and Technology (ICRIET) held in Seoul, South Korea on 18-19th February 2019.
- Participated and presented Oral presentation under the title: "Nanotechnology as Economic Novel Solution to Improve Polymer Insulation of High Voltage Applications" in the 9th Mediterranean offshore Conference in Alexandria from 17th to 19th April 2018.
- Participated and presented Oral presentation under the title: "Study the flashover voltage for outdoor polymer insulators under desert climatic conditions" in the 15th International conference on Petroleum, Mineral Resources and Development PMRD 2012, which was held in Egyptian Petroleum Research Institute (EPRI) on 8-10th Apr. 2012.
- Published technical research entitled "Study the flashover voltage for outdoor polymer insulation under desert climatic conditions" in Egyptian

Journal of Petroleum (2013) Vol. 22, PP.1–8, which is under umbrella of Elsevier (USA).

- Participated and presented Poster Presentation under the title: "Alumina trihydrate as fire retardant for polyester insulator of high voltage applications" in the 2nd International conference on corrosion mitigation and surface protection technology, which was held in Seagull Hotel, Hurghada, Egypt on 10-13th Dec. 2012.

Field of experience :

- Electrical Maintenance Engineer.
- Electrical Design and Project Engineer.
- PM SAP Support and Trainer.
- I gained my experience during work in different positions and sites inside Shell Egypt, OMAN, Iraq and Total Energies in Yemen; responsible for design and execute new projects in addition to applying preventive and corrective maintenance for all rotating & Static equipment of operating plants. I have been participated in the upgrade SAP program and execute MIE "Maintenance and Integrity Execution" project and carry out training sessions as Trainer and planning manager. My strong skills and qualifications enabled me to move as part time Electrical Trainer in different projects inside and outside Egypt.
- I have low and high voltage authorization from PDO "Petroleum Development in Oman" in addition to EX-Inspector certified from CompEX have capability to inspect EX-equipment and hazard area equipment selection in oil and gas field.
- I successfully used my awareness of Shell DEP, electrical safety rules and international standards/codes as well as knowledge of electrical rotating equipment and lifting, mechanical background with excellent results for my assignments in the construction, commissioning, start-up phases of various projects.
- In addition to working as Technical Executive Advisor in different construction project for private companies inside Egypt and Yemen in construction field.