

Curriculum Vitae

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Smart meters Manager - EDCO
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Personal Information

Name: Hamzeh Mohammad Abdelrhim Al-Faqeeh
Nationality: Jordanian
Date of Birth: may 10th 1982
Place of Birth: Jordan - Irbid
Marital Status: married
Address: Irbid - Jordan

Education & Qualifications

Education:

Bachelor Degree in Electrical Power Engineering Technology, Hijjawi Faculty for Engineering Technology, Yarmouk University, Irbid 2000 – 2005

GRADE:

Passed with grade (very good) having average (77.6).

Main Subjects

All courses studied: Machines, Electrical circuits, Electronics, Power electronics, Power system analysis, Engineering mechanics, Power system stability, power Distribution systems, High voltage engineering, Electrical power protection systems, Communication systems, and Control systems, AutoCAD.

PROJECTS:

Primary project: Methods of Voltage control (mat lab).

Secondary Project: Voltage stability assessment of Jordanian Network using Singular Value Decomposition (mat lab & cooperation with NEPCO).

Additional Information

Languages: Arabic - native Mother
English – V. Good written and spoken

Computer and Tools: Experienced user of Microsoft office products been user of the Internet, C++ Language, assembly language,

Experience

- 1- Smart meters Manager – EDCO from 01/01/2023 until now.**
 - **MDM, HES and AMI solutions.**
- 2- Project Manager of AMI smart meters, (EDCO) from 1th oct 2017 until now.**
 - Familiar of smart meters (GPRS, PLC, optical fiber).
- 3- Head of Meters section in Electrical Distribution Company (EDCO) in Amman, Engineering department from 23th Aug 2014 until 1th oct 2017.**
 - Review of meters specifications & AMI meters specifications
 - Familiar in meters functions and tests.
 - Familiar in CT and VT (Medium voltage Meters unit).
- 4- Protection & Metering Engineer (Commissioning and Testing Engineer, SCADA) in Electrical Distribution Company (EDCO) in Amman, Engineering department from 30th June 2011 until 22th Aug 2014.**
 - Familiar on Over current /earth fault/ transformer differential/ directional / busbar protection/ under voltage relay/ Trip circuit supervision / check synch relay/ lock out/ circuit breakers.
 - Familiar in SCADA systems (operation, installing, hardware, software, RTU and switches.
 - Familiar on Omicron CMC256 plus and CPC100.
 - Commissioning and Testing for Switchgear (33 / 11 KV S/S) & Power transformers.
 - Working in specification of electrical equipment (transformer, medium switchgear, metering, SF6 breakers and filling, etc...
 - Installation and Maintenance Substations 33/11 KV, 33/0.4 KV and 11/0.4 KV.
 - Witness routine test for medium voltage switch gear and GE relays in Turkey.
 - Witness routine test for distribution transformer in Amman
 - Functional test, hi pot test, mechanical & operational test, primary test and secondary test for medium voltage switchgear.

- Familiar of Relays protection. And **switchgear** (33 KV , 11KV , 6.6 KV and 3.3 KV)
- **Specialist in Testing CT's and VT's.** (All CT, VT tests primary and secondary).
- Specialist of metering.
- Operation and Familiar Switch.
- Familiar in CPC100 & CT Analyzer and Megger insulation.
- Familiar in CMC256 secondary test.
- **Specialist in AMR (Automatic metering remote).**
- Study and analysis of tenders for electrical equipment.
- Study and test all relay.
- Study and analysis of distribution system for forecasting plan.

5- *Supervisor Electrical Engineer in Saudi Bin laden Group – Operation and Maintenance (SBG-O&M) in Makkah Al-Mukramah (SCADA in Holy Haram Project- Power Supply Upgrading Medium Voltage) since July 30th 2007 until June 26th2011.*

- This Project is providing Holy Haram with Power Supply as Medium Voltage (13.8 KV). It contents on six substation Ring system, Two Station Switchgear and four substation direct systems.
- Responsible for planning and programming the operation and maintenance of the medium voltage system and low voltage system including switchgear, cabling, power distribution, power transformers, **SCADA system**, DC circuits, low voltage control, UPS &C.C.M.S
- Co-ordination with SCECO (Western Region) and stand by power plant for system voltage control and power quality improvement.
- Operation in control center for Makkah haram MV Network.
- Testing, Commissioning, Operation and Maintained (Transformers & Switchgear) in Holy Haram Makkah Project.
- Coordination with Work Control Center for planning period Preventive Maintenance and its Execution.

*** Coordinator & Supervising the Work for the Medium Voltage change from 11KV to 13.8KV which contain the following Task:-**

DRY TYPE TRANSFORMER (CAST RESIEN)

- Polarization Index, (Megger) test at 5000 Volts
- Winding DC High potential, (Hi-Pot) test at 27 Kv. Maximum for one minute
- Turn to turn ratio, (TTR) test at 13.8 Kv. Tap
- Winding Resistance test at 13.8 Kv. Tap.

VOLTAGE & CURRENT TRANSFORMER:

- Polarity & Ratio, Excitation, Winding - Resistance, Insulation -
- Polarization index, (Megger) test at 5000 volts.
- Winding DC High potential, (Hi-Pot) test at 27 Kv. Maximum for one minute.
- Turn to turn ratio, (TTR) test at 13.8 Kv. Tap.
- Polarity test.

SWGR without breakers: High pot Test at 27 kV AC

PROTECTIVE RELAYS

Protective relays & IQ Data plus, tested, programmed & verified according to the new ETAP load flow study to function at 13.8 Kv. level. (Including Time over current relays, Differential (Line & Feeders) under/ Over voltage and ground/ Earth faults relays).

6- *Power Engineer in Electrical Distribution Company (EDCO) in Jordan valley management since November 8th 2005 to July 29th 2007.*

- Operation and Maintenance Main Substations 33/11 KV and 33/6.6 KV.
- Installation and Maintenance Substations 33/0.4 KV and 11/0.4 KV.
- Familiar of Relays protection.
- Specialist in Testing CT's and VT's.
- Specialist of metering.
- Operation and Familiar Switch Gear 11 KV and 33 KV
- Testing and Commissioning of Transformers.
- Testing and Commissioning of Medium switchgear.
- Testing and installing CT's and VT's meters.
- Training of electronic L&G meters for one week in Amman.
- Training of portable meter test for three days in Amman.
- Testing of 33 KV, 11 KV and 6.6 KV cables.
- Operation and Maintenance RMU of 33, 11 KV.
- Operation and Maintenance of Overhead Line 33 KV.

- Hands-on experience of Low Voltage control and distribution system.
- Familiar of earthing system.
- Study Power losses and Voltage drop on distribution system.

7- Six months training in National Electric Power Company (NEPCO) City, state: Amman – 7th circle August 25th 2004 to February 25th 2005.

- Training ABB switchgear substation 132/33 KV (Waqas S/S).
- Training Transformers & maintained.

Training Courses

- 1- PMP (Project Management Professional Training) course from 5/10/2011 to 2/11/2011 in Amman (Engineers Training Center) 52 hours.
- 2- SCADA Siemens Software Training from 4/12/2011 to 8/12/2011 in Amman (Engineers Training Center) 30 hours.
- 3- ABB Relays Training (REF542+,REF610,REX521,SPAJ140, SPAD346) in Amman (EDCO) from 11/12/2011 to 15/12/2011, 30 hours.
- 4- Witness the routine test in ULUSOY factory –turkey (FAT test) for switchgear 33 KV from 3/1/2012 to 7/1/2012.
- 5- OMICRON Device Training preventive (CMC256) by OMICRON engineer in Amman (EDCO)
- 6- Training of Trainers (TOT) from 1/4/2012 to 5/4/2012 in Amman preventive by USAID with grade accomplishment certificate.
- 7- Installation of Heat Shrinkable Termination for Medium Voltage Cable (JOINT) in Jordan Valley (13/2/2012-16/2/2012) by NEXANS.
- 8- Meters training software, Installing, inspection, commission and testing (portable & bench test).
- 9- Witness the routine test in Hexing factory –Chine (FAT test & training) for AMR metering Jun 2012, Oct 2015, Nov 2019.
- 10- General Electric Protection Relay Training (F650, SR345,SR350, MIB) in Bilbao, Spain from (25/11/2012 to1/11/2012).
- 11- Witness the routine test & type test in Siemens factory –Turkey (FAT test & training) for Switchgear 33KV & 11 from 9/2/2013 to 16/2/2013.

- 12- SCADA & AMR training from 8/6/2013 to 15/6/2013 in South Korea (LSIS Company).
- 13- Smart Grid training from 10/5/2014 to 24/5/2014 in South Korea.
- 14- Omicron devices work shop from 26/5/2014 to 28/5/2014 in Amman.
- 15- FAT test in Slovakia for portable meters test “primary and secondary injection” from 4th Aug 9th 2014.
- 16- FAT test in Slovenia –(ISKRAemeco) for type test meters in DEC 2014.
- 17- FAT test in China – Holley Meters for type test meters in OCT 2015.
- 18- FAT test in Greece – Landis +Gyr (Ct/VT meters) April 2017.