MOHAMMAD AMJAD OBEIDAT

Senior Testing & Commissioning Engineer | NETA Level II | NEBOSH IGC - 2026

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PROFESSIONAL SUMMARY

NETA Level II Certified Assistant Electrical Testing Technician and Electrical Power Engineer with 9+ years of experience in testing, commissioning, operations, maintenance, and QA/QC of MV/LV power systems across mega construction projects, airports, substations, and industrial facilities. Hands-on experience with 13.8 kV switchgear, RMUs, transformers, protection relays, generators, UPS interfaces, MDB/SMDB/ATS panels, cables, and grounding systems. Experienced in FAT/SAT, primary and secondary injection, electrical diagnostics, MIR/WIR, punch-list closure, handover, fault investigation, and HSE/LOTO. Proficient in DIgSILENT PowerFactory and ETAP.

CORE EXPERTISE

MV/LV Testing & Commissioning | Protection & Relay Testing | Substation O&M | Electrical QA/QC | FAT/SAT & Handover | PM/CBM & CMMS | Fault Investigation & RCA | HSE/LOTO | Contractor & Client Coordination

CERTIFICATIONS & TRAINING

- **NETA Level II - Certified Assistant Electrical Testing Technician** | 2025
- **NEBOSH International General Certificate in Occupational Health and Safety (IGC)** | 2026
- **IMS Internal Auditor Training** - ISO 9001, ISO 14001, and ISO 45001 | FOCUSERA Academy, 2021
- **OSHA 30-Hour** | Occupational Safety and Health

PROFESSIONAL EXPERIENCE

Senior Testing & Commissioning Engineer | Evolution Engineering Services (EES)

Saudi Arabia **| Aug 2025 - Present** | *Projects: Al-Haram Third Expansion; LUCID*

- Supervise and witness testing and commissioning of 13.8 kV switchgear lineups, RMUs, dry-type transformers, MV generators, UPS interfaces, VFDs, MDBs, SMDBs, ATS panels, lighting, and small-power systems.
- Perform protection relay secondary injection, primary injection, functional checks, and trip-circuit verification for protection functions including 51, 51N, 27, 67, and 87 differential.
- Execute and witness IR/PI, contact resistance, CT/VT ratio, winding resistance, vector-group, magnetizing-current, Hi-Pot/withstand, interlock, and functional tests using calibrated instruments.
- Inspect busbars, cables, terminations, torque, grounding, labeling, workmanship, material quality, and equipment readiness before energization.
- Manage MIR/WIR inspections, SAT records, checklists, test reports, punch-list closure, QA/QC tracking, and final handover documentation.
- Coordinate with contractors, consultants, clients, and other disciplines to resolve technical issues and verify safe system integration.

Senior Operations & Maintenance (O&M) Engineer | Airport International Group (AIG)

Amman, Jordan **| Feb 2018 - Aug 2025**

- Operated and maintained 33/11/0.4 kV distribution systems, including switchgear, RMUs, power transformers, MDBs/SMDBs, generators, grounding, and airport electrical infrastructure.
- Planned and executed preventive, corrective, and condition-based maintenance; documented work orders, failure history, and asset performance in COSWIN 8i CMMS.
- Performed cable and equipment diagnostics including VLF testing, insulation resistance, contact resistance, functional checks, and withstand testing where applicable.

PROFESSIONAL EXPERIENCE - CONTINUED

Senior Operations & Maintenance (O&M) Engineer - Continued | Airport International Group (AIG)

Amman, Jordan **| Feb 2018 - Aug 2025**

- Prepared fault reports and root-cause analyses, performed rapid RMU switching and feeder discrimination, and verified grounding integrity and safety interlocks.
- Supported installation, testing, commissioning, and operation of MV switchgear, transformers, protective devices, and 5-10 MW synchronized diesel generators.
- Enforced HSE/LOTO procedures and delivered toolbox guidance for safe electrical work and switching activities.

Selected Achievements

- Reduced corrective work orders by **25-30%** and improved MTBF by **20-25%** through risk-based preventive maintenance and CMMS analysis.
- Restored power within **5 minutes** after faults through rapid RMU switching and feeder discrimination on the 33/11 kV network.
- Reduced transformer no-load losses by approximately **60 MWh annually** by optimizing parallel transformer operation.
- Contributed to **1 million injury-free hours** and full LOTO adherence through disciplined safety controls and toolbox training.

Trainee Engineer | National Electric Power Company (NEPCO)

Jordan **| 2016 - 2018**

- Completed practical training on 66 kV, 13 kV, and 11 kV electrical systems, MV switchgear operation and maintenance, and power-plant electrical equipment.
- Supported transformer installation, testing and commissioning, and underground cable installation and termination activities.

EDUCATION & SAFETY QUALIFICATION

BSc, Electrical Power Engineering - Yarmouk University, Hijjawi Faculty for Engineering Technology | 2011 - 2017

Diploma, Occupational Health & Safety Supervisor (265 hours) - Jordanian Ministry of Labour | 2017 - 2018

TECHNICAL SKILLS

Systems & Equipment: 13.8 kV switchgear, RMUs, dry-type and oil transformers, generators, UPS, MDB/SMDB/ATS, VFDs, cables, grounding, lighting, and small power.

Testing & Instruments: OMICRON CMC, CT Analyzer, DLRO, Fluke insulation testers, primary/secondary injection, IR/PI, contact resistance, VLF, Hi-Pot, TTR, CT/VT, functional and interlock testing.

Software: DIgSILENT PowerFactory, ETAP, AutoCAD, COSWIN 8i (CMMS), MATLAB, Python, and Microsoft Office.

Standards & Documentation: NETA ATS/MTS, IEC, IEEE, NFPA 70E, IEC 61850; FAT/SAT, MIR/WIR, as-builts, test reports, punch lists, and handover dossiers.

Professional Memberships: Saudi Council of Engineers (SCE) - Registered Member; Jordan Engineers Association; IEEE.