

IMRAN AHMED

QA/QC Engineer Electrical



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Riyad, Saudi Arabia

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SUMMARY

Detail-oriented **QA/QC Electrical Engineer** with proven experience in electrical installation, inspection, testing, and commissioning for **large-scale construction and industrial projects in the Gulf region**. Well-versed in **IEC, IEEE, NEC, and BS standards**, project specifications, and approved QA/QC procedures. Demonstrated ability to ensure full compliance with client, consultant, and regulatory requirements, effectively manage **ITPs, WIRs, MIRs, and NCRs**, and coordinate seamlessly with contractors, consultants, and project stakeholders to achieve high-quality, on-time project delivery.

WORK EXPERIENCE

QA/QC Electrical Engineer , COMATEC Group, Riyadh- Saudi Arabia 2025 - Present

- Handled QA/QC activities for multiple projects including **Canary Residential Villas Compound, International School Group (ISG), and Al-Rashed Food Company Ltd.**
- Conducted inspections, testing, and commissioning of **electrical installations** in residential, educational, and industrial facilities.
- Supervised **LV/MV cable laying, terminations, panel boards, switchgear, transformers, earthing, and lightning protection systems.**
- Prepared, reviewed, and submitted **Inspection & Test Plans (ITP), Work Inspection Requests (WIR), Material Inspection Requests (MIR), and Non-Conformance Reports (NCRs).**
- Coordinated QA/QC inspections and approvals with clients, consultants, and contractors to ensure compliance with project specifications.
- Witnessed electrical testing including **Insulation Resistance (IR), continuity, polarity, and earth resistance tests.**
- Ensured all work complied with **IEC, IEEE, NEC, and BS standards** and maintained QA/QC documentation for project handover.
- Skilled in **material inspection, approval, and verification** in line with project and international standards.
- Strong understanding of **safety regulations, electrical codes, and quality control procedures.**
- Proven ability to identify **non-conformances**, implement corrective actions, and maintain high-quality standards across multiple simultaneous projects.
- Supported **root cause analysis of electrical failures or defects** and proposed preventive measures.
- Coordinated with other disciplines (**civil, mechanical, and HVAC teams**) to ensure smooth integration of electrical systems.
- Conducted **site audits and quality inspections** to verify compliance with client, consultant, and statutory requirements.
- Experienced in managing QA/QC documentation and ensuring **final inspection and project handover compliance.**

Quality Control (Electrical), Al-Hamzi Cont. Company-Riyadh- Saudi Arabia

Feb- 2023-2025

- Handled QA/QC activities for **multiple STC and SEC projects** including telecom infrastructure, substations, and power distribution works.
- Conducted inspections, testing, and commissioning of **LV/MV electrical installations**, telecom power systems, and substations.
- Supervised **cable laying, terminations, panel boards, switchgear, transformers, earthing, and lightning protection systems**.
- Prepared, reviewed, and submitted **Inspection & Test Plans (ITP), Work Inspection Requests (WIR), Material Inspection Requests (MIR), and Non-Conformance Reports (NCRs)**.
- Coordinated QA/QC inspections and approvals with **STC, SEC, consultants, and contractors** to ensure compliance with project specifications.
- Witnessed electrical testing including **Insulation Resistance (IR), continuity, polarity, and earth resistance tests**.
- Ensured all works complied with **IEC, IEEE, NEC, and BS standards** and maintained QA/QC documentation for project handover.
- Supported **root cause analysis** of electrical failures and recommended preventive measures.
- Coordinated with other disciplines (**civil, mechanical, and telecom teams**) to ensure smooth integration of electrical systems.
- Managed **QA/QC documentation** and ensured final inspection and project handover compliance.

Electrical Intern, AKAALTECH- New Delhi, India

Feb 2022 - Aug 2022

- Gained hands-on experience in **electrical earthing and lightning** protection systems for industrial and residential projects.
- Assisted in **installation, testing, and inspection** of earthing grids and lightning protection components.
- Learned to conduct **earth resistance tests, continuity checks, and compliance verification** with IEC and BS standards.
- Supported senior engineers in preparing **site reports, inspection documents, and material verification**.
- Developed practical understanding of **safety regulations and quality control procedures** in electrical systems.

CORE COMPETENCIES

- QA/QC Inspection & Testing – Electrical Systems
 - STC & SEC Telecom/Power Projects
 - LV/MV Cable Laying, Termination & Glanding
 - Panel Boards, Switchgear, Transformers
 - Earthing & Lightning Protection Systems
 - Preparation of ITPs, WIRs, MIRs, NCRs
 - Material Inspection & Approval
 - Coordination with Clients & Consultants
 - Compliance with IEC / IEEE / NEC / BS Standards
 - Electrical Testing: IR, Continuity, Polarity, Earth Resistance
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EDUCATION

Bachelor in Electronics and Communication Engineering Delhi Institute of Engineering and Technology	2019 - 2022
Diploma in Electronic Engineering Jamia Millia Islamia	2016 - 2019
High School, ICSE St. Mary's School, Nagina	2015 - 2016
Advanced Diploma In Information Technology IT Computer Education Center, Nagina	2019 - 2023
NEBOSH IGC , Safety Certification 3S Life Safe Academie , Bangalore	May - 2024