

# FAWAD ALAM

## QC ELECTRICAL INSPECTOR / ELECTRICAL ENGINEER (Aramco Approved)

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Jubail, KSA



### PROFESSIONAL SUMMERY:

A dedicated electrical inspector-cum-engineer with more than five years of broad experience in construction industry in general and quality department especially. I have in depth knowledge of international electrical engineering codes like NEC, fire protection NFP 70 and Saudi Aramco codes and best practices. Additionally, I have knowledge of quality control practices and have foundational understanding of the quality management system. I am ever eager to join an organization and put my knowledge of electrical engineering into fruitful use. Demonstrated expertise in developing, reviewing, and implementing Inspection and Test Plans (ITPs),

Method Statements, Quality Checklists, and ensuring full compliance with international standards including NEC (2005/2011), NEMA, ANSI, NFPA-70, IEC, NETA, BS, IEEE, IP, and UL.

### WORK EXPERIENCE:

#### **Project government security complex**

07/2024 – 05/2025

*Contractor Gulf Cooperation symbols*

**Designation:** Electrical QC Inspector

**Location:** Haradh

**Client:** ARAMCO

#### **NEOM Residential Community 25(NRC)**

10/2022 – 05/2024

*Contractor MOBCO Group*

**Designation:** Electrical QC Inspector

**Location:** Tabuk City

**Client:** (NEOM)

#### **October Construction Company LTD**

02/2021 – 08/2022

*Installation of 380 Kv Underground*

**Designation:** Electrical QC Inspector

**Location:** Riyadh City

**Client:** Saudi Electrical Company (SEC)

#### **Hamza Co-Generation Power Plant**

01/2020 – 11/2020

*Sugar Mill & IPP Power Plant*

**Designation:** Electrical Site Engineer

**Location:** Jetha Bhutta Khanpur, Panjab

#### **National Transmission S Dispatch Company Pak**

03/2018 – 12/2018

*Operation & Maintenance Department Sangh Jani Substation (220/132KV)*

**Designation:** Internee Engineer

**Location:** Islamabad, Pakistan

## ROLE AND RESPONSIBILITIES:

- Preparing WIR MIR RFI of the any activities at the different stages of works and gets inspection from the clients.
- Inspect the installation of conduit systems (PVC, EMT, RMC), cable trays/ladders, transformer units, switchgears, MDBs, and DBs according to approved IFC drawings and specifications.
- Inspect the installation of conduit systems (PVC, EMT, RMC), cable trays/ladders, transformer units, switchgears, MDBs, and DBs according to approved IFC drawings and specifications.
- Monitor quality assurance and quality control processes for all electrical construction activities.
- Get written approval for various drawings and samples of the material using for.
- Participate in weekly coordination meetings with Engineering & Project Management (E&PM) and Operations departments.
- Verify installation of underground duct banks and electrical trenches according to IFC drawings.
- Prepare technical submittals for electrical equipment and components to be used on site.
- Coordinate with project managers and site engineers to ensure timely and efficient project delivery.
- Enforce Health, Safety, and Environmental (HSE) compliance on-site to maintain a safe work environment.
- Verify installation, testing (Continuity, Insulation Resistance, Hi-Pot), and termination of LV, MV, I&C, and building cables (direct buried and ducted).
- Inspect installation of indoor and outdoor lighting systems including poles and emergency lighting.
- Verifying Installation of Low voltage panel boards including DBs and MDBs.
- Review material submittals to confirm compliance with contract specifications and project requirements.
- Ensure materials/equipment delivered to the site meet approved submittal and quality standards.
- Verifying installation and testing of grounding/earthing systems and conduct earth resistance testing per standards.
- Verify lighting and power layout installations based on IFC, revised, and coordination drawings.
- Verifying Installation of lighting layout as per the IFC drawing and as per the site requirement with approved revised drawing and coordination drawing from PMT.
- Inspect exposed and concealed raceways (PVC/EMT conduits, trays/ladders, trunking) for compliance.
- Verifying ground resistance testing for electrical earthing system and noted the values according to the standards.
- Maintain detailed QA/QC documentation including inspection reports, test records, and site observations.
- Conduct pre-inspection meetings to review quality control planning with contractors and subcontractors.
- Ensure proper labeling and tagging of cables, distribution boards, and electrical panels.
- Monitor calibration and certification status of all electrical testing equipment used on site.
- Provide technical support in resolving site issues, clearing punch lists, and during final inspections.

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## EDUCATION:

**Peshawar Pakistan**

**B.Sc. Electrical Engineering**

**(2016 TO 2020)**

♦ *University of Engineering & Technology Peshawar*

**Peshawar Pakistan**

**DIPLOMA OF ASSOCIATE ENGINEER**

**(2013 TO 2016)**

• **Electrical Technology**

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## Final Year Project's Term projects

### *Final Year Thesis*

#### **DESIGN OF DC – AC POWER CONVERTER FOR RENEWABLE ENERGY APPLICATIONS.**

- The aim of the project is to design a full-bridge DC-AC power converter for PV solar application that will have an input voltage of 350V and an output voltage is 220Vac @ 50Hz. the maximum output power of the converter will be up to 1KW. The designed converter can be used in any renewable energy application.

## Term Projects

### Semester projects:

- DC-AC Power Converter (Inverter)  
Converts DC power from solar panels to AC power for grid/load use.
- Full-Bridge Topology  
A common inverter configuration using four switches (MOSFETs/IGBTs) for efficient power conversion.
- Renewable Energy Application  
Specifically for PV (photovoltaic) solar systems but adaptable to other sources like wind or battery storage.
- Specifications:  
Input: 350V DC (typical for high-voltage PV arrays).  
Output: 220V AC, 50Hz (standard household voltage in many countries). Power Rating: 1KW (suitable for residential/small-scale applications).

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## Accreditation:

- Higher Education Commission Pakistan (HEC)
- Pakistan Engineering Council (PEC)
- ISO 9001:2015 Certified

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## SKILLS:

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|-----------------------|-----------|------------|-----------|
| • MATLAB              | • • • •   | • MS EXCEL | • • • • • |
| • MS WORD             | • • • • • | • AUTOCAD  | • • • •   |
| • ALTIUM PCB DESIGNER | • • • •   |            |           |

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## AWARDS:

### *Certificate of Achievement*

*Information Technology Board (KPITB)*

### *Appreciation Certificate*

*Pakistan Telecom Company*  
Best Performance

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## LANGUAGES:

- English
- Urdu
- Pashto

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## Reference:

**Will be provided by the demand.**