

OWK EMMANUEL

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PROFESSIONAL SUMMARY

Results-driven Quality and Testing Engineer with 2.8+ years of experience in Oil-Immersed Transformer manufacturing, in-process quality assurance, and factory acceptance testing (FAT). Strong expertise in Core Coil Assembly (CCA), Tanking, and Dispatch operations for single-phase and three-phase transformers (Ratings from 5 kVA to 25 MVA, 66 kV class). Proven ability to coordinate in-process inspections, handle customer inspections independently, and drive non-conformance reduction using structured RCA and CAPA. Hands-on experience in preparing QAP/QCP, ISO documentation, and implementing quality tools as per IS 1180, IS 2026, IEC-60076 and ISO 9001:2015 requirements.

KEY SKILLS & COMPETENCIES

Transformer Manufacturing & In-Process QA: CCA, Tanking & Dispatch operations of Oil-Immersed Distribution transformers, Inverter Duty transformers, Pad Mounted transformers and Power Transformers

In-Process Inspection & Testing: Mechanical fitment, clearances, alignment, tank welding inspection, painting thickness, gasket sealing, oil leakage detection, dimensional checks, visual inspection

Quality Planning & Documentation: QAP/MQAP preparation, Quality Control Plans (QCP), CTQ identification, SOP/SWI/SOR preparation, Inspection checklists, Process flow diagrams (PFD), Control plans

Quality Tools & Problem Solving: RCA, 5-Why, 8D, Cause-Effect Diagram, Pareto Analysis, 7 QC Tools, PFMEA, CAPA for internal NCs and customer complaints

Audits & Systems: Process audits, Document audits, System audits, Internal audit support for ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, IMS documentation, material traceability

Standards & Compliance: IS 1180 (Part 1 & 3), IS 2026, IEC-60076, BIS regulations, customer specifications, GTP compliance

Customer Handling: Factory Acceptance Testing (FAT), customer inspection handling, technical clarification with Design/Production/Testing teams

Tools & Software: SAP QM Module, MS Office (Excel-based tracking sheets), quality documentation systems, NCR tracking & process validation data management

Professional Attributes: Strong analytical skills, high professional integrity, independent decision-making, team leadership, effective written and verbal communication

PROFESSIONAL EXPERIENCE

Shirdi Sai Electricals Ltd.,

Quality Engineer – Process Engineering

Kadapa, Andhra Pradesh

December 2023 – Present

Key Responsibilities:

- Monitor and control in-process quality during Core Coil Assembly (CCA), Tanking, and Vacuum Oil Filling (VOF) & Dispatch operations for Oil-Immersed Distribution, Power, Inverter Duty, and Pad Mounted transformers. (Ratings from 5 kVA to 25 MVA, 66 kV class)
- Coordinate final and in-process internal inspections to ensure manufacturing as per applicable customer specifications, GTPs, IS 1180, IS 2026, and IEC-60076.
- Handle customer inspections and FAT independently for domestic and export customers, ensuring 100% compliance with quality and documentation requirements.

- Prepare and maintain QAP/QCP, inspection plans, CTQ checklists, and in-process control plans for CCA, Tanking, and finishing operations.
- Conduct process audits, document audits, and support system audits as per ISO 9001:2015 and integrated management system (IMS) requirements.
- Identify, report, and analyze non-conformances in in-process and final inspection; led root cause analysis (RCA) and implement CAPA using 5-Why, 8D, and cause effect diagrams.
- Support PFMEA preparation for critical transformer manufacturing processes and define process controls and reaction plans.
- Coordinate with Design, Production, and Testing teams to address process failures, design-related issues, and special requirements, including transformers used with VFD applications.
- Ensure calibration and basic maintenance coordination for in-process measuring instruments and test setups; verify records and validity status.
- Maintain comprehensive inspection reports, NCR records, process validation and material traceability documentation using SAP QM and Excel-based tracking sheets.
- Train shop-floor technicians and operators on updated SOPs, SWIs, inspection checklists, and quality standards.

Key Achievements:

- Reduced CCA rework by 20% through improved stage-wise inspection protocols and first-time-right inspection checklists.
- Successfully supported FAT clearance for 50+ distribution transformers with zero major non-conformances.
- Implemented a material traceability system for insulation materials, resulting in zero material-related NCs and improved ISO audit compliance.

Vidyuth Engineering and Infrastructure

Hyderabad, Telangana

Electrical Engineer

June 2023 – December 2023

Key Responsibilities:

- Conducted routine testing and commissioning activities on electrical equipment including transformers and associated components.
- Supported quality assurance protocols and quality documentation procedures.
- Maintained comprehensive testing records and generated compliance reports for internal and external stakeholders.
- Participated in equipment validation and performance verification procedures.

APSPDCL

Koilakuntla

Intern

November 2018 – April 2019

Key Responsibilities:

- Assisted in power distribution system operations, maintenance, and field troubleshooting.
 - Participated in on-site field inspections and quality assurance activities.
 - Gained practical working knowledge of electrical distribution networks, transformer operations, and grid management.
 - Supported power system reliability and maintenance protocols
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PROJECTS & PROCESS IMPROVEMENTS

CCA Inspection Checklist Development: Designed and implemented a detailed internal inspection checklist for transformer CCA, covering mechanical fitment, winding positioning, and insulation integrity; reduced defects and rework by ~20%.

Prototype FAT – 33/11 kV 4 MVA Transformer: Led FAT inspection activities, including tank leakage testing, weld quality assessment, and dimensional verification; ensured full compliance with customer specifications and secured approval.

Material Traceability System: Implemented batch-wise traceability for insulation materials, enhancing ISO documentation and eliminating material-related non conformances.

Quality Documentation & Standardization: Standardized QCPs, SOPs, SWIs, and SORs for key manufacturing stages, improving process consistency and reducing training time for new personnel.

EDUCATION

Bachelor of Technology (B. Tech) in Electrical and Electronics Engineering

Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal

October 2020 – May 2023 | **CGPA: 7.28/10**

Diploma in Electrical and Electronics Engineering

ESC Government Polytechnic, Nandyal

June 2016 – April 2019 | **Grade: 57.6%**

Secondary School Certificate (SSC)

W. Kothapalli, Nandyal

June 2015 – April 2016 | **GPA: 8.5/10**

PROFESSIONAL CERTIFICATIONS & TRAINING

- **Internal Auditor Training:** ISO 9001:2015, ISO 14001:2015, ISO 45001:2018
 - **Internship Certificate:** Southern Power Distribution Company of Andhra Pradesh Limited (APSPDCL), April 2019
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PROFESSIONAL ATTRIBUTES

- Strong analytical and problem-solving skills with focus on root cause identification and prevention.
 - High professional integrity, ownership mindset, and ability to work independently with sound decision-making.
 - Effective cross-functional communication and customer-facing skills for handling inspections and audits.
 - Quick learner, adaptive to dynamic shop-floor conditions and continuous improvement initiatives.
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LANGUAGES

English: Professional Proficiency (Read, Write, Speak)

Hindi: Professional Proficiency (Read, Write, Speak)

Telugu: Native Proficiency (Read, Write, Speak)

ADDITIONAL INFORMATION

Location: Kadapa, Andhra Pradesh, India (Willing to relocate for career advancement)

Availability: Available for 1-month notice period / Immediate joining

Professional Networks: LinkedIn Profile: <https://www.linkedin.com/in/owk-emmanuel-927530236>