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Maintenance, Commissioning & Testing Engineer

Holds a B. Sc. in Electrical Engineering and a Diploma in electrical protection. Has over 11 years' experience working in maintenance, testing and commissioning.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 11/11/1989
Gender : Male
Marital Status : Married
Residence : Mansoura

EDUCATION

: B. Sc. in Electrical Engineering, Mansoura University, 2011
: Diploma in electrical protection, Mansoura University, 2020

LANGUAGES

Arabic : Native Language
English : Good

COMPUTER SKILLS

: Windows, MS Office (Word, Excel), Internet

TRAINING COURSES AND CERTIFICATIONS

: Network Training Center (NTC), South Cairo:

- Protection Fundamentals.
- Maintenance and Testing of Power Transformers – TR.
- Control circuits (CCS).

: Training at Maintenance and Testing of Power Transformers in Factory GE Turkey.

CHRONOLOGICAL EXPERIENCE RECORD

Dates : From Jul. 2012 till now
Employer : Egyptian Electricity Transmission Company (EETC)
Job titles :

- Maintenance, Commissioning & Testing Engineer (from May 2014 till now)
- Overhead Transmission Lines Projects Engineer (Jul. 2012 – May 2014)

- Job Description** :
- Maintenance Dept.:
 - Routine maintenance of power transformers.
 - Transformer tap changer maintenance.
 - Installing all kinds of switch gear, cables and transformers.
 - Thermal imaging of all substation components and locating hot spots as well as doing the proper analysis.
 - Testing Dept.:
 - Complete Gas Insulated Switch Gears Testing (GIS):
 - ❖ SF6 Gas analysis.
 - ❖ SF6 gauge calibration testing.
 - ❖ SF6 Gas leakage test.
 - ❖ Isolator and E/S contact resistance measurement and timing test.
 - ❖ Main Breaker testing.
 - ❖ CT and VT Testing.
 - ❖ Auxiliary component, Energy meters and meters testing.
 - ❖ GIS Scheme Interlocking test.
 - All types of Testing for Power Transformers:
 - ❖ Visual Inspection.
 - ❖ Insulation resistance.
 - ❖ DC Winding resistance for transformer.
 - ❖ Turns ratio test for all tap changer taps.
 - ❖ No load current losses.
 - ❖ Impedance voltage test.
 - ❖ Vector group test.
 - ❖ Zero Sequence Impedance.
 - ❖ Tap changer Inspection.
 - ❖ Bushing C.T Tests.
 - ❖ Dissipation factor (Tan δ) test.
 - ❖ Induced high voltage.
 - ❖ Dielectric test.
 - ❖ Temp Rise Test.
 - ❖ Grounding Resistance.
 - Testing of High and Medium Voltage Switchgears:
 - ❖ Timing test (Trip and Close) for circuit breakers.
 - ❖ Contact resistance for C.B.
 - ❖ Scheme Interlocking test.
 - All types of Testing for Potential Transformer:
 - ❖ Polarity test.
 - ❖ Ratio test.
 - ❖ Winding resistance test.
 - ❖ VA Burden Test.
 - ❖ Meager/Insulation resistance test.
 - All types of Testing for Current Transformers:
 - ❖ Insulation test for primary & secondary.
 - ❖ DC resistance for transformer coils.
 - ❖ Turns ratio.
 - ❖ Magnetization curve test.
 - Oil transformer:
 - ❖ Testing and doing gas analysis for transformer oil testers like myrkos with software report.
 - ❖ Oil Break Down.

- Power Cables Testing:
 - ❖ Dissipation factor (Tan δ) test.
 - ❖ Insulation resistance.
 - ❖ DC resistance for Cable.
 - ❖ DC Hi pot Test.
- Other works:
 - ❖ Stability & Sensitivity test of 13.8KV, 110KV, 132KV bus bar.
 - ❖ Stability & Sensitivity test of transformer.
 - ❖ High voltage test of 13.8KV bus SWGR.
 - ❖ Primary, Secondary injection test of 13.8KV, 110KV, 132KV CTs & VTs circuits.
 - ❖ 13.8KV scheme Check.
 - ❖ Scheme and functional Test of protection power Transformer.
 - ❖ Schematic drawing reading and review.