Ahmed Shawki Mousa El-Sayed
Instrumentation and Control Engineer
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Summary:

➢ Instrumentation and control engineer in detailed maintenance, commissioning and development co-ordination of instruments and control systems in the gas Plants.
➢Ten years' experience as an instrumentation and control systems engineer.
➢ SCADA systems operation, pre commissioning, commissioning, modifying and troubleshooting.
➢ Maintaining instruments which are used to monitor and control engineering systems to operate effectively, efficiently and safely.
➢Develops scopes of work for I&C systems.
➢Testing, maintaining, modifying and updating the existing Control systems.
➢Install, configuration, calibration, loop checking, provide maintenance, clear faults and alarms for all instruments (transmitters – valves signals - limit switches - level switches - pressure switches - turbines –orifice- ultrasonic meters - WBH heaters - odorant system – solenoids - volume corrector - .....- etc.) from the field to control cabinets in the gas plants different stages (inlet – filtering – metering – reduction – outlet – odorizing – heating – cooling).
➢Preparing the specifications for the tenders, reply to queries, evaluate the received technical proposals and provide a recommendation for award.
➢Evaluating the drawings and data that are submitted by vendor to achieve the tender specification.
➢Preparing all punch list items if any before closing the project.
➢Responsible for the accuracy of the gas quantities which delivered to the customers.
➢Able to work effectively both independently and as a part of a team.
➢ Ideal employee for the year of 2017.

Personal Details:

➢Current Position: Department Head Instrumentation & Control Engineer.
➢Current Location: Cairo, Egypt.
➢Date of Birth **:** 30 / 7 / 1986. ➢Marital Status **:** Married.
➢Religious **:** Muslim. ➢Military Status **:** Exempted.

Academic Qualifications:

➢Faculty of Engineering – Zagazig University – Egypt.
➢B. SC of Electronics & Communication Engineering (electrical department).
➢Graduation year : MAY 2008. ➢Degree : Good.

Language Skills:

➢Arabic: Speaking competence: Native, Written competence: Native.
➢English: Speaking competence: very good, Written competence: very good.

Experience:

1- **Organization: Jelecom Panasonic Company**
Duration: MARCH 2009-DEC. 2010

Designation: Training Coordinator

Responsibilities:

- Preparation of all technical aspects of the company training catalog.
- Selecting adequate courses based on trainees level and Preparation of workshops and training materials.
- Attendance many courses in the field of instrumentation and control.
- Branch manager and Marketing engineer.
- Excellent Experience in sales and marketing.

2- Organization: Town Gas Company (natural gas field).
Duration: MAY 2011 till now.
Designation: Senior Instrumentation and control engineer, instrumentation and control department, SCADA management.

Responsibilities:

- Responsible for the instruments and control in more than 100 gas stations with different design capacity in 5 governorates.
- Manages other instrumentation and control engineers and technicians (Leading a team of 3 instrument engineers and 7 instrument technicians).
- Lead, guide, supervise, and appraise Instrument Maintenance Engineers and technicians team during normal operation. Manages the discipline Daily/weekly/monthly maintenance plans. Ensures that team members comply with the company's policies, procedures and meet Maintenance targets.
- Reporting periodically to Maintenance Manager and provide Corrective Maintenance, Preventive Maintenance, Predictive Maintenance for all sites.
- Technical Support for the other companies in the same field.
- Designing, Implementing and Commissioning of new control loops as per site requirements.
- Instruments complete installation, commissioning and startup for many gas stations.
- Determine instruments and their specifications for instrument and control systems.
- Marshalling and Control system cabinets complete installation with all devices required for power, signaling, metering, odorizing… etc.
- Spares balance investigation and inventory control for all instruments' spare parts.
- Support cost effective consumption and cost vs. benefit decision.
- Ensure spares are correctly described, ordered, received, stored, and preserved in accordance to manufacturing recommendation to be fit for use upon need.
- Experienced in applying control techniques in many positions which achieve the solution and minimize cost.
- Experienced in supervision & monitoring RTU and MTU through SCADA system and problem analyzing, decision making and solving the sudden problems.
- Pressure Transmitters, temperature transmitters, differential pressure transmitters, mass flow transmitters, micro motion….. etc. (installation-calibration-configuration - operation- troubleshooting).
- Pressure switches, temperature switches, differential pressure switches, level switches, temperature controllers……etc. (installation-calibration-configuration - operation-troubleshooting).

- Flow computers and volume correctors (installation-calibration-configuration-operation-troubleshooting).
- Flow meters as turbines, ultrasonic meters, coriolis ,micro motion, pitot tube and orifices (operation-troubleshooting).
- Actuators, limit switches, solenoids, sensors and cooling system (installation - operation-troubleshooting).
- I/P converters and control valves (installation-configuration –operation-troubleshooting).
- Odorant systems (installation-configuration-operation-troubleshooting).
- Water path heater control panels, preheaters and heat trace (installation-configuration-operation-troubleshooting).
- Barriers isolators and signal duplicators (installation-operation-troubleshooting).
- Experienced with FAT and SAT procedures.
- Hot, cold commissioning, loop test and continuity test for all instruments.
- Experienced with the hart communicator.
- Piping and Instrument Diagram (P&ID) review, Bill of Material for Instruments review.
- Wiring diagrams review and modify if necessary.
- Installation of the junction boxes complete with terminal block.
- Upload, download PLC programs, editing and tracing any faults or errors of PLC & Maintain the CPU, power supply & I/O Modules.
- Electronic boards checking and troubleshooting.
- Familiar with Power systems (power supply - UPS - gas generator- distribution panel)
- Interact with technical experts from other originations/entities to find solutions for specific instrumentation problems.
- Attendance Site problems and startup with many foreign experts from Construction & Vendor companies (RMG-PIETROFIORENTINI-FORAIN-I SYSTEM-VALVITALIA-…..).
- Set and review with department superintendent the contractor scope of work and requirements to guarantee work accomplished within approved company procedures, policies, and targets in a cost efficient way.
- Establish and maintain healthy relationship with vendors to achieve effective communication channels, secure On-Time support, and maintain competitive deals.
- Follow and attend (as appropriate) Vendors periodic events and technical releases to track latest products, upgrades, and technologies and make use of lesson learnt from sister industries problems.
- Very good experience in searching and reading manuals of instruments and make good relations with instrument suppliers.

Technical courses:-

- Printed circuit boards
- Classic control
- Analog and digital electronics
- SCADA and MES
- Mobile package
- PLC
- Microcontrollers
- Self-study for many instrumentation and control courses

Personal skills:

➢ Ability to work under pressure and learn new tasks quickly.

- Very good communication skills and Self-motivated.
- Ability to build relationships and networks with internal organization and customers.
- Excellent analytical and problem solving skills.

Declaration:

I hereby declare that all information stated above is true to the best of my knowledge.

(Last Updated on August 2021)