

Holds a B. Sc. in Special Chemistry and has over 5 years hands-on experience in the field of plastic polymers across quality control, technical office and production.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 29/02/1992
Gender : Male
Marital Status : Single
Residence : Alexandria

EDUCATION

: B. Sc. in Special Chemistry, Alexandria University, 2013

LANGUAGES

Arabic : Native Language
English : Very Good

COMPUTER SKILLS

: Windows, MS Office, Internet
: Minitab 2017

TRAINING COURSES AND CERTIFICATIONS

- : Sidi Krir Petrochemicals Co. (SIDPEC) (Intern) (Jul. 2012):
 - Attending daily lectures about plants and going down to work site.
 - Good knowledge of Safety, polyethylene production plant, industrial water treatment plant, quality labs.
- : Awareness of ISO 45001:2018 Occupational health and safety management systems (Sep. 2018).
- : Awareness of ISO 14001:2015 Environment management system (Sep. 2018).
- : Awareness of ISO 17025:2017 General requirements for the competence of testing and calibration laboratories (16 hours) from ESSP (Dr. Tarek Awad) (Aug. 2018).
- : Lean Six Sigma Green Belt (72 hours) from ESSP (Dr. Tarek Awad) (Apr. 2018).
- : Quality management system (ISO 9001:2015) and Internal Audit from Perfect Touch Consultancy Services (May 2017).
- : OSHA General Industry & Health from Riyadh Cables Company (Dec. 2015).

- : Angstrom V-950 Optical Emission Spectrometer from Raman Instruments (Jun. 2015).
- : Thermal Gravimetric Analysis Instrument (TGA) Q50 from National Scientific Company (Jun. 2015).
- : Infrared Instrument Nicolet 6700 from Naizak (May 2015).
- : Baird DV-6 Optical Emission Spectrometer from Helpanal Systems (Dec. 2013).
- : Fertilizers Industry from ABU QIR Fertilizers Co. (Mar. 2013).
- : Petroleum Industry overview from Alexandria Petroleum Co. (Feb. 2013).
- : Lubricating Oils Types and Compositions from Misr Petroleum Co. (Nov. 2012).
- : INDUSTRIAL Water Treatment from Faculty of Science (Sep. 2012).

CHRONOLOGICAL EXPERIENCE RECORD

- Dates** : From Feb. 2018 till now
- Employer** : Sacom Industries for Polymer Solutions (SOFT PVC COMPOUNDS)
- Job title** : Senior R&D and Technical Office Engineer
- Job Description** :
- Identify and investigate new and alternative PVC compounds for cost reductions and new products introductions.
 - Implement all new products and provide support to all new applications conduct various laboratory studies to analyze all data and prepare technical reports.
 - Monitor customer issues and assist to identify and resolve issues effectively and develop resolution for all issues.
 - Design new materials as per customer requirements.
 - Design and recommend innovative improvements to all processes and monitor all competitor activities and determine all quality specifications for all new materials.
 - Apply and extend laboratory testing regimen and process simulations to extend knowledge base.
 - Work with laboratory staff to ensure optimal turnaround and experimental efficiency.
 - Guide technicians in Materials Test Lab to develop new test methods.
 - Communicate and document results.
 - Interface with suppliers and procurement to test and evaluate new materials, analytical equipment. Work with suppliers to resolve problems with materials as well as maintain relationship with suppliers to stay abreast of new material availability.
 - Responsible for review and revisions of the SOP.
 - Investigate Nonconformance root causes, and response to corrective action requests and preventive action requests.
 - Coordinate and implement process improvement plans.
 - Preparing Technical Offers.
 - Troubleshooting for the cable extrusion process and plug molding.
 - Manage the Key performance indicators (KPI's), Quality charts, Risk Assessment and PFMEA.
 - Provide support to different departments (Financial, sales, procurement, planning and warehouse).

Dates : From Feb. 2017 till Feb. 2018
Employer : Incom Egypt Co. for Cables
Job title : R&D and QC Engineer at PVC Plant
Job Description :

- Preparing Technical Offers.
- Develop the product formulation to fulfill International and customer specs.
- Implement QC standards and procedures.
- Perform analytical testing on the finished products (PVC Compounds).
- Reviewing customer specifications and starting new PVC compound formulation to satisfy customer requirements and standards.
- Evaluation of the new plastic additives.
- Discussing the new materials with the suppliers.
- Checking the production line and wire extrusion process.
- Troubleshooting for the cable extrusion process and plug molding.
- Preparing the QC documents and customer certificates.
- Manage the Key performance indicators (KPI's), Quality charts, Risk Assessment and PFMEA.
- Perform root cause analysis for NC and corrective actions.
- Implementation of new materials from development into manufacturing.
- Prepare Quality reports, points out any deviation from established target and recommend corrective action as necessary.
- Enforce company safety rules.

Dates : From Nov. 2013 till Feb. 2017
Employer : Riyadh Cables Group of Companies, KSA
Job title : Chemist at Central Lab (R&D and raw material)
Job Description :

- Well versed in using chemical and physical analyzing instruments like: FT-Infrared Nicolet 7600, optical emission Spectrometer Angstrom V950 & Baird DV-6, Differential Scanning Calorimetry (DSC) Q20, Thermo gravimetric Analysis (TGA)Q50, Moving Die Rheometer (MDR2020) gas chromatography (GC) varian 450, Tensile testing machine zwick/roell Z005, Carl Fischer, Petroleum testing equipment, Oxygen Determinator in metals (LECO RO400 &OHN3000) and Tensile testing machine for metals zwick/roell 50KN.
- Well versed in using analyzing equipments of plastic polymers like: carbon black content test apparatus, Halogen Acid Gas Test Apparatus, Profile Projector, melt flow index tester, limiting oxygen index tester, ozone test chamber, ageing ovens, impact tester, durometer hardness tester, Smoke Test Apparatus, optical microscope zeiss axioplan 02, etc...
- Operation of laboratory Kneader (Buss MKS 30).
- Operation of laboratory Mixer – roll mill – and Hydraulic Presses (lab tech engineering).
- From Feb. 2015 till Feb. 2017 (QC Trial Material Coordinator):
 - Evaluation of the new plastic additives.
 - Development of new materials and substitute materials.
 - Reviewing all documents related to new material (TDS, TC and MSDS) and issue the trial material request.
 - Coordinate implementation of new materials from development into manufacturing.

- Coordinate the approval process of new materials between technical, quality control and procurement departments.
- Preparing the documentation of the approval process of new Vendors.
- Act on experiments to develop new products of XLPE, LSF and HDPE compounds.
- Submit monthly and yearly reports for top management.
- From Nov. 2013 till Feb. 2015:
 - Conducting plastics testing, analysis, and quality control of polymer performance.
 - Doing analytical testing for Incoming Raw Materials.
 - Doing testing on the finished products (PVC Compounds, polyethylene compounds, HEPR (High Module Ethylene Propylene Rubber), HFFR (Halogen Free Flame Retardant Compounds) and XLPE (cross linked polyethylene).
 - Analyze materials and processes failures.
 - Performs complete type test on the final cables for approval of raw material and vendors like Borouge, Borealis, Sabic, Evonik, Dow, DYM, Arkema, Sumitomo, Crosspolimeri ...etc.
 - Preparing work instructions.
 - Calibration for the lab equipment.
- Achievements:
 - Development of new formulation of HDPE compound which used in high voltage cable sheathing that replaces Borouge product HE6062.
 - Development about 50 compounds of PVC grades (flexible and hard).

Dates : From Aug. 2013 till Nov. 2013
Employer : Gloris Pharma Co. - Alexandria
Job title : Medical Representative

Field of experience :

- Implementing Lean Six Sigma Tools.
- Implementing and internal Auditing for quality management system (ISO 9001:2015).
- Awareness of ISO 17025:2017 General requirements for the competence of testing and calibration laboratories.
- Awareness of ISO 14001:2015 Environment management system.
- Awareness of ISO 45001:2018 Occupational health and safety management systems.
- Managing the Key performance indicators (KPI's), Quality charts, risk assessment and PFMEA.
- Starting PVC Compounds Formulations for Cable insulation and sheathing, hoses, shoes soles, soft window profiles, fridges gaskets, crystals, plug molding ...etc.
- Good understanding of Plastic Raw Materials, Various Polymers like PE, PP, EVA, PVC.
- Understanding of polymer additives rules like fillers, Fire retardants, UV stabilizers, Slip agents, antioxidants, processing aids, plasticizer and heat stabilizers.

- Competent in using chemical analyzing instruments.
- Good knowledge of extrusion and injection molding processes.
- Interpret and analyze data collected from the chemical test or experiment.
- Understanding of safety standards (OSHA).