

## **Loway Hashem Qasem, MSc**

Material science and engineering, Wayne State University

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### **CURRENT POSITION**

Lecturer at chemistry department, Palestine technical University- Kadoori May 2010 – present.

### **EDUCATION:**

M.S. in Material Science & Engineering, Wayne State University – Detroit MI USA 2008.

BSc in Chemical Engineering, An-najah National University- Nablus, Palestine 2004.

### **PROFESSIONAL EXPERIENCE**

**May. 2010 – present**

Palestine Technical University- Kadoori  
Tulkarem-Palestine

**Lecturer**

Department of chemistry at Palestine Technical University-Kadoori

**Apr. 2006 – Feb. 2009**

Bodycote Thermal Processing

3181 Glendale Drive ,Livonia, MI 48150, USA.

**Metallurgist**

- supporting our research and development, quality control and engineering departments
- conducting hands-on laboratory tests in the Powers Fasteners Technical Center such as hardness testing, dimensional layouts, tension testing, bend-yield testing, microhardness sample preparation, microhardness testing and corrosion testing
- Candidate will be responsible for running/maintaining our scanning electron microscope
- analyzing results using standard Microsoft Office software
- participating in product problem solving teams including research and development and quality control
- Interacting on daily basis with senior management.
- Running micro-indentation hardness testing, metallurgical sample preparation and SEM operation.

**Apr. 2006 – Feb. 2009**

Axle Alliance Company/Detroit Diesel Corporation, Detroit, USA.

**Quality Control**

- Assist managing the day-to-day operation of the Quality Assurance department.
- Provide guidance and prioritize the samples process.
- Train employees on various QA functions.
- Track and trend re-runs and product quality issues.
- Assist with sorting and spot-checking samples.
- Views daily output for key quality attributes. Confirms product meets established specifications.
- Compares product to data to ensure logic is correct.
- Compares artwork/files to approved graphics to confirm proper revision of assets.
- Provides backup and administrative support to Quality Department.
- Performs Document Control and Asset Management functions.
- Ensures product meets or exceeds client quality expectations. Promotes, participates in, and supports the Quality Management System.
- Continuously seeks to improve processes and eliminate product and process non-conformances.
- Seeks to improve efficiency and recommends process changes to Quality Assurance Supervisor.
- Seeks opportunity to improve skills and knowledge from coworkers.
- Participate in training and development activities and applies the skills learned on the job.
- Requests additional training when necessary.
- Responsible for analyzing and identifying trends and generate statistical information to managers
- Other tasks as assigned.

**Oct. 2003 -- Jun 2004**

Odeh Electroplating Co. Ramallah -West Bank –Israel

## **Production engineer**

- Monitoring of plating operations to ensure high plating quality, low defect rates, and high output capacity.
- Process characterization/optimization studies to determine process capabilities for meeting customer requirements.
- Ability to write process instructions.
- Management and control of raw materials, suppliers and equipment to ensure a smooth production.
- Investigation and reporting of process-related failures, root cause analysis and implementation of corrective actions.
- Hazardous waste/material disposal in accordance with regulatory controls.
- Good record keep and organization skills

## **PROJECTS**

- Recycling and Characterization of Polystyrene.
- Mechanical and physical properties of polymers blends
- The effect of Zeolite and Calcium carbonate on polyethylene plastic
- Processing and characterization of blends of recycled HDPE and virgin polyolefins
- The Effect of Compatibilizer and Fillers on Blend of Polypropylene and Polyethylene.
- Modeling and simulation of an electroplating process.

## **COURSES TOUGHT**

General Chemistry lab 1 & 2, Thermodynamics, Material science, Fluid Mechanics, Risk Assessment, Transport Phenomena, Reactor Design, Reaction Engineering, Polymer Technology & Rheology, Metallurgy, Safety and Risk Assessment.

## **REFERENCES**

- Diane Metzlof, Quality Engineer, Axle Alliance Co. Mobile 0013135927301
- Locas Goetz, Quality Engineer, Axle alliance Co. Mobile 0013135200233
- Mohammad Abu Farha, Quality Sources, General manager. Mobile 001313806500