



## Mark Edison N. Medino

Age: 30 y/o  
Material Status: Single  
Nationality: Filipino

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### Professional Profile

#### *Analytical Laboratory – Instrumental Techniques*

Chemist with years of experience in an analytical laboratory coupled with robust understanding of analytical chemistry and instrumentation. Technically trained for various analytical instruments such as XRF, ICP-OES, AAS, UV-Vis spectrometer, Oxygen and sulfur analyzer, with field of specialty on methods development and method validation of XRF. Demonstrated ability to accomplish work within target deadlines. Developed capacity to lead team project and collaborate with analyst/chemist in planning and execution. Adaptable to different work environments, can work well within a group or can work alone with less supervision, and friendly to colleagues.

### Core Competencies

- ISO 17025 internal auditor
- Instrumental Assaying
- Technical training support
- Method Validation
- Able to operate AAS, ICP, OES, XRF, Leco Analyzer (S and O2)
- Classical (Wet) Analysis
- XRF Expertise (Zetium-Panalytical, Xepos, EDX-8000 Shimadzu)

### Career Summary

Sep. 2022 - Present



**Chemist**, Materials Testing and Control Section  
Laboratory Department  
Saudi Ceramics Company  
Riyadh, Saudi Arabia

- Perform laboratory tests for all incoming, in-process and finished product materials.
- Managing the Laboratory sample testing for the ceramic products.
- Maintains records and prepare reports

Mar. 2021-Aug. 2022  
(1 year & 5 mos.)



**Research Chemist**, Methods Development and Quality Control  
Metallurgical Laboratory Department  
Philippine Associated Smelting and Refining (PASAR) Corp.  
Isabel, Leyte, Philippines

- Perform multi-task analytical laboratory functions of various samples for either methods development, quality control, and/or special analysis request.
- Develop new analytical methods and/or improve existing procedures through planning, testing, and implementation including training of laboratory personnel on new/revised methods
- Conduct research and studies on chemical theory and practical techniques needed for the development of analytical methods
- Investigate and choose appropriate parameters and operating procedures for the analytical method in order to avoid erroneous measurements and method bias
- Plan and design procedures to address problematic assays or other special analysis

- Study, develop, and validate methods used in instrumental analysis
- Optimize instrument parameters suitable for routine analysis in laboratory
- Recommend corrections and/or corrective actions to mitigate, resolve, and address actual and/or potential problems on analytical methods
- Compare analytical data with testing activities for methods validation
- Conduct method validation and data analysis through statistical tools (e.g. measurement uncertainty, t-test, f-test, recovery calculations)
- Perform test (e.g. repeatability test, recovery, etc.) to evaluate analytical skill using CRMs, SRMs, or quality control samples
- Support the conduct of proficiency testing program Qualifications
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Nov. 2018–Mar. 2021  
(2yrs & 4 mos)



**Laboratory Analyst, Quick Assay Section**  
Metallurgical Laboratory Department  
Philippine Associated Smelting and Refining (PASAR) Corp.  
Isabel, Leyte, Philippines

*Responsible in performing multi-task analytical laboratory functions of various samples for quality control, and special analysis request.*

Perform analytical laboratory functions of various samples for either commercial, process monitoring, legal, environmental requirement and other related purposes of the business.

- Acknowledges receipt of samples and records details as necessary and assess samples endorsed
- Sampling preparation (wet acid digestions, peroxide/borate fusion) for ICP-OES, AAS assays and (pressed powder, fused bead) XRF assays.
- Performs method development and instrument optimization specifically on XRF (Wavelength selection, calibration, correction on spectral interferences and others)
- Performs method validation conforming to ISO 17025 (tests for accuracy, precision, linearity, limit of detection, selectivity/ specificity, robustness, and other parameters)
- Statistical analysis of data (T-test, F-test, and others)
- Presents and writes technical reports
- Performs gravimetric and volumetric analysis
- Technical training of laboratory personnel on validated methods
- Ensures safe work area before commencing tasks

Key Achievements:

- Successful completion of projects and training of analysts
- Cost and man-hours reduction due to developed instrumental methods

Feb. 2018-Sep. 2018  
(7 mos)



**Chemist**  
Water Testing Laboratory  
Laboratory Department  
Eastern Visayas Regional Medical Center  
Tacloban City

*Performs fast, timely, precise and accurate analysis of drinking water samples*

Performs conventional analysis and timely reporting of results

- Ensures good housekeeping of working area

Key Achievements:

- No delays and discrepancy in analysis results

Nov 2014- Dec 2017  
(3yrs & 1 mo)



### **QAQC Supervisor**

Quality Assurance/Quality Control Section  
Eunice Inc.  
Diliman, Quezon City, Philippines

- Ensures quality of incoming and outgoing materials.
- Maintains records and prepare reports.

## Academic Background

### **Bachelor of Science in Chemistry**

Eastern Visayas State University  
Tacloban City  
June 2008 – March 2012

### **Diploma of Secondary Education**

St. Joseph High School  
Dagami, Leyte  
June 2004 – March 2008

### **Diploma of Elementary Education**

Balilit Elementary School  
Brgy. Balilit, Dagami, Leyte  
June 1998 – March 2004

## Training and Seminars

ISO 17025: 2017 Training – BSI (June 2020)  
Oxygen Analyzer Training by LECO (Las Vegas, Nevada, USA) – (Nov. 2019)  
Pollution Control Officer Training (Nov. 2016)  
Basic Occupational Safety and Health Training (May 2015)

## Languages and Skills

**Languages:** English, Filipino, Waray and Cebuano

**Skills:** MS-Office (Powerpoint, Word, Publisher, Excel)

**Eligibility:** Board passer, Chemistry Licensure Examination (Oct. 2016)

## Character References

Darwin C. Gomez  
Professor, Department of Environmental Science and  
Chemistry  
Eastern Visayas State University  
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