

# MUHAMMAD YOUNIS Chemist

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## EDUCATION

**Bahaudin Zakariya University**, College of Science, Multan, Punjab, Pakistan  
*Bachelor of Science in Chemistry in In-organic Chemistry & Analytical Chemistry*, GPA: 3.23/4.00

Dec 2021

**Board of Inter Mediate and Secondary Education** – Dera Ghazi Khan, Punjab, Pakistan  
*Faculty of Science in Pre-Engineering, Chemistry, Mathematics & Physics*, Marks Percentage 76%

August 2017

## SKILLS

### INSTRUMENT OPERATING SKILLS:

INSTRUMENT	APPLICATION	ASTM STANDARDS
SPECTRO XEPOS XRF Spectrometer (EDXRF)	Elemental Analysis of various materials	ASTM E1621, ASTM E1442, ASTM E275, ASTM E1085, ASTM E1605
Fourier Transform Infrared Spectroscopy (FTIR)	Chemical Identification, Material Characterization	ASTM E1252, ASTM E168, ASTM E334, ASTM E573
Nitrogen Analysis (LECO 628 Series)	Nitrogen Content Determination in Samples	ASTM D4629, ASTM D5762, ASTM D5763
European Diesel Injector Shear Stability Index (SSI)	Evaluation of Diesel Fuel Shear Stability	ASTM D7460
Noack Volatility Test Equipment (Evaporation Loss)	Determination of Volatility of Lubricating Oils	ASTM D5800
Automated Cold Cracking Simulator (CCS)	Assessing Cold Flow Properties of Diesel Fuels	ASTM D6371
5L Glass Reactor System Jacketed Reactor	Laboratory Reactor for Chemical Synthesis	No specific ASTM standard
Kinematic Viscometer	Measurement of Kinematic Viscosity of Fluids	ASTM D445, ASTM D446
Digital Brookfield Viscometer	Measurement of Viscosity of Fluids	ASTM D2983, ASTM D2196
Foaming Characteristics Tester	Evaluation of Foaming Characteristics of Lubricants	ASTM D892
Specific Gravity	Measurement of Specific Gravity of Liquids	ASTM D1298, ASTM D4052
Coulometric Karl Fischer titrators (Metrohm)	Moisture Content Determination in Liquids	ASTM D6304
Tanaka mini Pour Point Analyzer (Analytical)	Determination of Pour Point of Petroleum Products	ASTM D97
Lovibond tintometer	Color Measurement of Petroleum Products	ASTM D1500
Benchtop Turbidity Meter (with built-in printer)	Measurement of Turbidity in Liquids	ASTM D6691, ASTM D7315
Polymer Modified Bitumen Mixer	Mixing and Homogenization of Bitumen with Polymers	No specific ASTM standard
pH Meter (Metrohm)	Measurement of pH in Liquids	ASTM D1293
Muffle Furnace Sulphate Ash Content Tester	Determination of Sulphate Ash Content in Materials	ASTM D874
Automatic lubricating oil oxidation stability tester	Evaluation of Oxidation Stability of Lubricants	ASTM D943
Salt Titrino plus (Metrohm)	Measurement of Chloride Content in Liquids	ASTM D512
Cleveland Open Cup	Determination of Flash and Fire Points of Petroleum Products	ASTM D92
Seta Oil Test Centrifuge	Separation of Contaminants and Water from Oils	ASTM D2709, ASTM D91
Equilibrium Boiling Point Tester	Measurement of Equilibrium Boiling Point of Fuels	ASTM D86
Reserve alkalinity	Determination of Reserve Alkalinity in Coolants	ASTM D1121

### Laboratory Skills:

Laboratory Safety, Precision Measurement, Calibrations, Solution Preparation, Instrument Handling, Qualitative Analysis, Quantitative Analysis, Record-Keeping, Troubleshooting, Equipment Maintenance, Data Analysis

### Computer Skills:

Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Outlook, Microsoft Access, Instrument software running skills

### Industrial Lab skills:

**Formulation**, Quality Control, **Tribology**, Chemical Analysis, Product Development, Materials Science, Process Optimization, Regulatory Compliance.

### INHOUSE COURSE

**ASTM Standards**, Internal Auditor Training course, Quality Management Systems (**QMS**), Laboratory Safety and Compliance, Advanced Data Analysis Techniques,

## EXPERIENCE

### CHEMIST

Analysis of Samples by Using ASTM Standards & ISO Standards Like , FTIR , XRF, Noack Volatility, Shear Stability Index of Polymers, Determination of Viscosity and Viscosity Index, Density Measurement, pH Testing, Reserve Alkalinity Analysis, Sulphate Ash , Tintometry, Determination of Total Acid and Base Number, Foaming Characteristics Testing, Cold Cracking Simulation, Pour and Flash Point Determination, Turbidity Measurement, Nitrogen Analysis by Using LECO , Sample Preparation, Sample Formulation.

**OSCAR LUBRICANTS/EMIRATES REFINERY - AJMAN, UNITED ARAB EMIRATES June 2023 – Present**

#### CHEMIST

##### **Sample Handling and Preparation:**

- Properly receiving, labeling, and organizing samples.
- Ensuring appropriate storage conditions for different types of samples.
- Following established protocols for sample preparation, including dilutions or extractions when necessary.

##### **Quality Control and Assurance:**

- Conducting routine calibration and maintenance of laboratory equipment.
- Monitoring and documenting instrument performance and accuracy.
- Implementing quality control checks to verify the reliability of results.
- Adhering to established standard operating procedures (SOPs) for accurate and consistent testing.

##### **Data Recording and Documentation:**

- Accurately recording experimental procedures, observations, and results.
- Maintaining organized and comprehensive laboratory notebooks or electronic records.
- Ensuring data traceability and compliance with data integrity protocols.
- Collaborating with colleagues to share information and insights.

##### **Safety and Compliance:**

- Adhering to safety protocols and guidelines to prevent accidents and injuries.
- Properly disposing of hazardous materials and waste in accordance with regulations.
- Participating in regular safety training and awareness programs.
- Ensuring that all laboratory activities comply with relevant legal and ethical standards.

##### **Communication and Collaboration:**

- Effectively communicating experimental plans, results, and conclusions.
- Collaborating with team members on research projects or testing procedures.
- Providing regular updates to supervisors or project managers.
- Participating in team meetings and contributing to the overall success of the laboratory.

**MHM Lubricant Distribution LLC – Manama, Bahrain**

**June 2022 – May 2023**

#### Chemist and Marketing Research analyst

Lubricant Market Trend Analysis, Product Performance Evaluation, Customer Feedback Analysis, Technical Support, Quality Control Testing, Regulatory Compliance Monitoring, Technical Documentation, Product Data Analysis, Cross-functional Collaboration

## ACTIVITIES

Academic Achievements(**BS Chemistry**), Research Experience(**Tribology Field**), Laboratory Skills (**Lubricants Chemist**), Relevant Coursework, Extracurricular Activities (**Cricket, Reading, Javeline throw**), Internships.

## LANGUAGES

**English,Urdu,Hindi, Punjabi,Saraiki**

## References

Will be Furnished on Demand