



## Muhammad Raheel Awan

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### WORK EXPERIENCE

#### Medical Laboratory Technologist

*Bahria Town International Hospital Safari* [ 1 Nov 2019 – Current]

**City:** Rawalpindi

Working at Bahria Town International Hospital, the technologist would have been responsible for tasks such as:

- 1. Sample Collection:** Collecting blood, urine, tissue, and other samples from patients for analysis.
- 2. Testing:** Performing various laboratory tests using advanced equipment and techniques to analyze samples for indicators of diseases, infections, or other health issues.
- 3. Quality Control:** Ensuring the accuracy and reliability of test results by following strict quality control procedures.
- 4. Data Analysis:** Analyzing and interpreting test results and communicating the findings to doctors and other healthcare professionals.
- 5. Record Keeping:** Maintaining accurate records of tests performed, results obtained, and patient information.
- 6. Instrument Maintenance:** Regularly calibrating and maintaining laboratory equipment to ensure accurate results and prolong the life of the instruments.
- 7. Troubleshooting:** Identifying and resolving technical issues that might arise during the testing process.
- 8. Safety and Compliance:** Adhering to safety protocols and laboratory regulations to protect both the technologist and patients.
- 9. Collaboration:** Collaborating with other healthcare professionals to provide accurate and timely diagnostic information.

#### Blood Bank Technician

*Blood Bank Services Bilal Hospital* [ 1 Jan 2014 – 1 May 2015]

**City:** Rawalpindi

Our key responsibilities of a blood bank technician include:

- 1. Blood Collection:** They collect blood from voluntary donors or patients, ensuring proper labeling, documentation, and adherence to safety protocols.
- 2. Blood Testing:** Blood bank technicians perform various tests on collected blood samples to determine blood type (A, B, AB, or O), Rh factor (positive or negative), and screen for infectious diseases such as HIV, hepatitis, and syphilis.
- 3. Component Separation:** After blood collection, they process the blood to separate it into different components such as red blood cells, platelets, plasma, and cryoprecipitate, depending on the patient's needs.
- 4. Storage and Preservation:** Blood components need to be stored at specific temperatures to maintain their integrity and potency. Blood bank technicians ensure proper storage conditions and monitor expiration dates.
- 5. Crossmatching:** Before a blood transfusion, they perform compatibility tests to ensure that the recipient's blood is compatible with the donor's blood to prevent adverse reactions.
- 6. Record Keeping:** Accurate documentation of donor and patient information, blood testing results, and component processing details is essential for maintaining traceability and patient safety.
- 7. Equipment Maintenance:** Blood bank technicians are responsible for maintaining and calibrating equipment used in blood testing and processing to ensure accurate results.

## EDUCATION AND TRAINING

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### Master of philosophy in Microbiology

*The University of Haripur (UOH)* [ 10 Sep 2020 – 26 Dec 2022]

**City:** Haripur

**Website:** [www.uoh.edu.pk](http://www.uoh.edu.pk)

**Field(s) of study:** Microbiology

**Final grade:** CGPA 3.2

**Thesis:** Evaluation and Interpretation of Polymyxin Sensitivity by Disc Elution Method Against Carbapenem Resistant Clinical Isolates.

A Master of Philosophy (M.Phil.) in Microbiology provides you with an advanced understanding of microbiology and research methodologies. It's a postgraduate research degree that equips you with the skills to contribute to scientific knowledge in your chosen field. Here's how you might be working after completing an M.Phil. in Microbiology:

- Perform microbiological testing and analysis of samples to identify and characterize microorganisms.
- Develop and implement strategies for microbial control and prevention in different settings.
- Collaborate with multidisciplinary teams to address microbial challenges and provide expertise in microbial aspects of projects.

### B.Sc in Medical Laboratory Technology (MLT)

*Armed forces post graduate medical institute (AFPGMI)* [ 14 Jan 2014 – 13 Dec 2018]

**City:** Rawalpindi

**Website:** [www.afpgmi.edu.pk](http://www.afpgmi.edu.pk)

**Field(s) of study:** Medical Laboratory

**Final grade:** Grade A

### F.Sc in Medical Laboratory Technology (MLT)

*College of Medical Technology/pims.* [ 6 Sep 2011 – 13 Dec 2013]

**City:** Islamabad

**Website:** [www.pims.gov.pk](http://www.pims.gov.pk)

## TRAINING INSTITUTE

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*Armed Forces Institute of Pathology (AFIP)* [Jan 2014 – Dec 2018]

**City:** Rawalpindi

**Website:** [www.afip.gov.pk](http://www.afip.gov.pk)

**Field(s) of training:** Medical Laboratory Technology

**Four years' training in medical laboratory technology at the Armed Forces Institute of Pathology (AFIP) in Rawalpindi** is likely to provide you with a comprehensive education in various aspects of laboratory medicine and diagnostics. The AFIP is a renowned institution known for its high-quality training and research in pathology and laboratory sciences.

During our training, we can expect to learn about:

1. **Clinical Laboratory Techniques:** You will receive training in various laboratory techniques used to analyze and diagnose medical conditions. This could include techniques related to hematology, microbiology, biochemistry, immunology, and more.
2. **Laboratory Safety:** Safety protocols and practices are crucial in a laboratory setting. You will learn about handling hazardous materials, using personal protective equipment (PPE), and maintaining a clean and safe

working environment.

3. **Instrumentation and Technology:** Modern medical laboratories use a variety of advanced instruments and technologies. You will likely receive training on how to operate and maintain these instruments, ensuring accurate and reliable test results.

4. **Sample Collection and Handling:** Proper collection and handling of patient samples are vital for accurate diagnoses. You will learn how to collect, process, and store various types of biological samples.

5. **Quality Control and Assurance:** Maintaining quality and accuracy in laboratory results is essential. Training will cover quality control measures, including calibrations, controls, and validation of results.

6. **Disease Diagnostics:** You will gain an understanding of how laboratory tests contribute to diagnosing and monitoring various medical conditions. This includes interpreting test results and correlating them with clinical findings.

7. **Communication and Reporting:** Effective communication is crucial in the medical field. You will learn how to communicate results to medical professionals, interpret test reports, and collaborate as part of a healthcare team.

8. **Ethics and Professionalism:** As a healthcare professional, you will be expected to adhere to ethical standards and maintain professionalism in all interactions with patients, colleagues, and supervisors.

### ***Armed Forces Institute of Transfusion (AFIT)*** [May 2018 – Jan 2019]

**City:** Rawalpindi

**Website:** [www.afit.gov.pk](http://www.afit.gov.pk)

**Field(s) of training:** Medical Laboratory Technology

#### Role and Responsibilities

1. **Blood typing and cross matching:** Blood Bank Technologists perform blood typing tests to determine a person's blood group (A, B, AB, or O) and Rh factor (positive or negative). They also perform crossmatching tests to ensure compatibility between the donor's and recipient's blood before a transfusion.
2. **Screening and testing:** They screen blood donations for infectious diseases, such as HIV, hepatitis, and other pathogens to prevent the transmission of infections through transfusions.
3. **Component separation:** Blood is often separated into its various components like red blood cells, plasma, and platelets. Blood Bank Technologists are responsible for this process, which involves using specialized equipment to extract and prepare these components.
4. **Storage and inventory management:** They ensure proper storage conditions for blood and blood products to maintain their viability and safety. Blood Bank Technologists are also responsible for managing the inventory and ensuring an adequate supply of blood products for medical procedures.
5. **Communication:** Blood Bank Technologists often work closely with medical staff, physicians, and nurses to provide information about blood products, compatibility issues, and transfusion reactions.

## **LANGUAGE SKILLS**

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Mother tongue(s): **Urdu**

**Other language(s):**

**Urdu and English**

**WRITING B1**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## **DIGITAL SKILLS**

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Microsoft PowerPoint / Microsoft Word