



# THIRD PARTY EVALUATION REPORT

## SKILLED DEVELOPMENT TRAINING

UNDER  
BANAZIR BHUTTO SHAHEED HUMAN RESOURCE  
RESEARCH & DEVELOPMENT BOARD (BBSHRRDB)

SCHOOL OF PARAMEDICS  
JINNAH POSTGRADUATES MEDICAL CENTER  
(JPMC), KARACHI

PHASE - 2020 TO 2021

VERIFIED BY:  
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## List of Acronyms

<b>BBSYDP</b>	<b>Benazir Bhutto Shaheed Youth Development Program</b>
<b>BBSHRRDB</b>	Benazir Bhutto Shaheed Human Resource Research and Development Board
<b>JPMC</b>	Jinnah Postgraduates Medical Center
<b>IRS</b>	Integrated Research Solution
<b>PMU</b>	Project Management Unit
<b>MoU</b>	Memorandum of Understanding
<b>TPV</b>	Third-Party Validation
<b>SBTE</b>	Sindh Board of Technical Education
<b>EPI</b>	Expanded Program on Immunization
<b>BCG</b>	BACILLE CALMETTE-GUERIN
<b>CNS</b>	Central Nervous System
<b>ANS</b>	Autonomic Nervous System
<b>CVS</b>	Cardiovascular System
<b>EMT</b>	Emergency Medical Technician
<b>OT</b>	Operation Theater
<b>CCF</b>	Congestive Cardiac Failure
<b>ENT</b>	Ear Nose Throat
<b>ECG</b>	Electrocardiogram
<b>CVP</b>	Central venous pressure
<b>CSF</b>	Cerebrospinal fluid
<b>CPR</b>	Cardiopulmonary Resuscitation
<b>BLS</b>	Basic Life Support
<b>HIV</b>	Human Immunodeficiency Virus

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## Evaluation Team:

S.#	Name	Designation	Remarks
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## **EXECUTIVE SUMMARY**

The Project Management Unit (PMU) of the Benazir Bhutto Shaheed Human Resource Research and Development Board (BBSHPRDB), established in the Jinnah Postgraduate Medical Centre (JPMC), provides support for the Third Party Validation (TPV) of trained participants under a contract with the Benazir Bhutto Shaheed Human Resources Research and Development Board (BBSHRRDB). This is in accordance with the Memorandum of Understanding (MoU) signed between BBSHPRDB and Jinnah Postgraduates Medical Center (JPMC) for the purpose of conducting skill development training.

The PMU-BBSHRRDB-JPMC in Karachi successfully trained 293 youths in various employable trades, including Dispenser, Operation Theatre Technician, Laboratory Technician, Blood Bank Technician, X-Ray Technician, Dental Surgery Assistant, Anesthesia Technician, Emergency Medical Technician, and Ophthalmology.

The assignment's objective was to verify and validate the trainers' credentials and experience, curriculum conformity with the prescribed syllabus, training delivery, confirmation of training from graduates/trainees, duration, attendance, certification of trainees, and confirmation of employability created as a result of the project delivered.

To achieve this objective, consultants were engaged to develop a methodology for verification from trainers, training institutes, and trainees. The methodology included tools and a telephonic survey of selected trained youth, applying random sampling from the pool of trainees. A questionnaire was developed, and interviews were conducted.

The sampling was calculated with a 95% confidence level and a 5% margin of error. Within this sampling framework, out of 293 youths, 117 were interviewed. Regarding the validation of trainers and curriculum, meetings and visits were conducted to verify them. The consultants gathered information from a representative sample of training programs, collecting data from the sample trainees

## **INTRODUCTION:**

The Benazir Bhutto Shaheed Human Resource Research and Development Board (BBSHRRDB) has been established under the government of Sindh with a comprehensive and long-term vision to address the twin issues of poverty alleviation and the eradication of unemployment in the Sindh province.

The board's Mine Division Training Program and Curriculum, known as the Benazir Bhutto Shaheed Human Resource Research & Development Program (BBSHRRDB) Youth Development Program (BBSYDP), has been operational since 2008-09. This program has successfully trained over two hundred thousand individuals, including both literate and illiterate youth aged 18-35, with almost 168,000 of them being females. Nearly 50% of these trained individuals have secured decent employment opportunities.

An MOU was signed between BBSHRRDB and JPMC based on the approved Proposal for Training (PFT) in the Technical Committee and Board meeting. This MOU outlines the collaboration for providing training in various trades to unemployed youth in Karachi, Sindh province. As a result, PMU-BBSHRRDB-JPMC has trained 293 youth/trainees in various medical trades.

To validate the training provided by JPMC to these 293 trainees, a consulting assignment was announced and subsequently signed with a consultant to conduct the validation exercise.

## **PURPOSE:**

BBSHRRDB aimed to engage a consulting firm or individual as a third party to validate the BBSHRRDB training program implemented by PMU-BBSHDB-JPMC. The objective is to ensure the smooth implementation of the program in accordance with approved guidelines. Additionally, the validation process seeks to determine whether the program has successfully facilitated a minimum of 40% post-training employment by the training providers.

This validation initiative is crucial for assessing the effectiveness of the training program and its impact on providing employment opportunities for the participants. The consulting firm or individual will play a key role in objectively evaluating the program's execution, adherence to guidelines, and the tangible outcomes in terms of post-training employment facilitation. The

results of this validation process will contribute valuable insights to enhance the program's efficiency and further support BBSHRRDB's mission of addressing unemployment challenges in the region.

## **SCOPE OF THE WORK:**

The Third-Party Validation (TPV) aims to assess and identify both the strengths and gaps in the implementation and monitoring of the training program carried out by the PMU-BBHSRRDB-JPMC. The primary focus is on ensuring the sustainability of the project by comprehensively examining various aspects of its execution. This validation process will contribute valuable insights for refining and enhancing the overall effectiveness of the training program while also providing recommendations for long-term sustainability.

## **SPECIFIC OBJECTIVES:**

The specific objectives of the Third-Party Validation (TPV) assignment are as follows:

- To assess and validate the credentials and experience of trainers engaged by the JPMC.
- To validate and assess the curriculum used for training participants in their respective batches.
- To validate training delivery in alignment with the Memorandum of Understanding (MoU) signed with the board.
- To assess and verify training completion, including the duration of training, attendance, the number of graduated trainees, and the distribution of certificates.
- To check and verify the institute's affiliation with the Sindh Board of Technical Education (SBTE).
- To determine whether 40 percent of the graduates from this program are employed, either through self-employment or wage employment.

## WORK PLAN AND METHODOLOGY:

To fulfill the assigned task within the outlined objectives and scope of work, the plan of action and methodology, along with the tools for conducting the TPV study, have been developed and are detailed in the following sections. These align generally with those specified in the Terms of Reference (TORs).

## METHODOLOGY:

To assess the training and employability ratio of BBSHRRDB graduates, this study employed a cross-sectional survey design. The research utilized a mixed-method approach, incorporating both quantitative and qualitative methods. The quantitative component provided an overview of the training's profile and duration, while the qualitative approach facilitated an evaluation of program effectiveness, identifying both successful aspects and areas requiring improvement.

The primary source of data collection was telephonic interviews. Additionally, the study analyzed existing curricula, trainer profiles, reports, and databases to gather relevant information aligning with the study's objectives.

A questionnaire was developed, and interviews were conducted using Excel. The sampling was calculated with a 95% confidence level and a 5% margin of error. Within this framework, 117 out of 293 youths were interviewed, contributing valuable insights to the study.

**Table.1 Sample Size for Breakup**

<b>Component Tread</b>	<b>Total Enrolment</b>	<b>40% Sample</b>
<b>DISPENSER</b>	<b>46</b>	40
<b>LABORATORY</b>	<b>47</b>	18
<b>OT TECHNICIAN</b>	<b>25</b>	10
BLOOD BANK	20	10
ANAESTHSIA	27	15
EMT	28	11
X-RAY	30	13
DSA	26	12
OPHTHALMOLOGY	23	10
<b>Total Grand</b>	<b>272</b>	<b>117</b>

## **DATA COLLECTION:**

The consultant, IRS Global, along with their team, conducted telephonic interviews with 117 trainees and held meetings with the training institute and trainers at the venue used for the youth training sessions. Data collection tools, including a questionnaire and an interview format, were devised for gathering information from both the trainees and the training institute.

## **SURVEY PARTICIPANTS:**

The study's population comprised 117 trainees who were graduates of BBSHRDB and had undergone training through PMU-BBSHRDB-JPMC over a period of six months. While the study targeted all 293 graduates, it strategically employed a sampling technique to ensure that the selected participants were representative of various characteristics such as program type, gender, and geographic location. This approach aligns with the recommendations outlined by BBSHRDB, providing a comprehensive and inclusive representation of the overall trainee population in the program. The sampling process aimed to maintain a balance across these identified characteristics for a more nuanced and accurate analysis.

## **RESEARCH INSTRUMENT:**

A semi-structured interview protocol, comprising both close-ended and open-ended questions, was developed with a specific focus on the study's objectives. This protocol underwent a pre-testing phase involving a small group of potential participants, approximately 05 BBSHRDB graduates randomly selected from the database of PMU-BBSHRDB-JPMC. The piloting of this instrument played a crucial role in identifying and minimizing any ambiguities present in the interview questions. This iterative process not only enhanced the clarity of the questions but also contributed to obtaining more valid and insightful responses from the participants. The refined interview protocol, informed by the pre-test findings, was then ready for implementation in the main study.

## **DATA ANALYSIS:**

All telephonic interviews were recorded and subsequently transcribed using a dedicated tool for analysis. While various software options exist for automatic transcription, it may not be feasible for interviews conducted in English by non-native speakers or in other languages. As a result, our research team opted for manual transcription to ensure accuracy and nuanced understanding.

The manual transcription process was carried out meticulously by our research team. Following transcription, the data was organized and entered into Excel for the purpose of analyzing both quantitative and qualitative aspects. This approach allowed for a thorough examination of the information gathered during the interviews, enabling us to address the specific research objectives outlined for this study. The combination of manual transcription and advanced analytical tools ensured a comprehensive and reliable analysis of the collected data.

## **LIMITATIONS**

During the course of this study, the consulting firm encountered numerous obstacles. Here are some of the challenges faced:

- **Sampling Constraints:** The study relies on a sample size of 117 out of 293 trainees, which may not fully represent the entire population of graduates. The findings may be influenced by the characteristics of the selected participants.
- **Time Frame:** The study is confined to a specific period of six months, and the employment status of graduates is assessed within this timeframe. Long-term impacts and sustainability beyond this period may not be fully addressed.
- **Resource Constraints:** The manual transcription process, although chosen for its accuracy, is resource-intensive. This limitation may impact the scalability and efficiency of the validation process for larger projects.
- **Self-Reporting Bias:** Participants' responses, particularly regarding employment status and program effectiveness, may be influenced by self-reporting bias, potentially leading to an overestimation of positive outcomes.
- **Limited Geographical Focus:** The study primarily focuses on trainees from a specific geographic location, potentially limiting the generalizability of the findings to a broader context.

- Dependency on Telephonic Interviews: The study heavily relies on telephonic interviews, which may introduce limitations related to participants' accessibility, response reliability, and the inability to observe non-verbal cues.

Despite these constraints, it is noteworthy and highly appreciated that the management personnel of PMU-BBSHRRDB-JPMC in Jamshoro demonstrated exceptional cooperation and support throughout the completion of this report.

## RESULTS

- All sampled trainees fall within the age group of 18-35 years.
- CVs of all trainers were verified, and meetings were conducted with almost all trainers, either in person at the campus or through telephonic interviews.
- The curriculum was present at PMU-BBSHRRDB-JPMC and was verified for relevance in the respective trades.
- All participating trainees confirmed that the training was delivered using participatory approaches, including practical sessions, PowerPoint presentations, and the provision of handouts and notes to enhance knowledge and skills.
- Each course had duration of six months, as confirmed by the participants. Attendance sheets were checked at PMU JPMC, and trainees also randomly confirmed their presence on the campus.
- Upon successful completion of training, the trainees underwent hands-on experience or on-job internships for a couple of weeks within industrial and commercial units related to their fields of training.
- JPMC, being a degree-awarding medical institute, does not require accreditation from any board.
- Out of the 293 participants, 75% confirmed engagement in employment across various organizations and departments, while the remaining 25% pursued further education. The overall impact indicates that 75% of the trainees are now employed.
- The above results shows that the project has provided a good space to the needy and disadvantaged and underprivileged youth of Sindh province, who rated good to the training contents, venue, state-of-the-art infrastructure, training environment and the highly Qualified trainers.

- All the participants confirmed that they had received the monthly stipend by the training institute paid to them as per set criteria. The trades' selection was as per the demand of job market and the skills gained are helping them in the job market in the medical field

## **CONCLUSION AND RECOMMENDATIONS:**

- The trainers recommended that such kind of trainings should be organized and continued throughout the year so that the JPMC can contribute more in creation jobs and reduce unemployment.
- Due to the strict admission policies and requirements can create hinder because most of the students cannot get avail this opportunity and get admission in graduates program at the JPMC so such kind of training and course may be expanded more to adopt the JPMC expertise to organized the course at the large scale level through the Sindh Province.
- The contents of the training were shared with the BBSHRRDB before the commencement of trainings so these specialized contents should be used by the other medical institutes as well.
- JPMC is the recognized institute and providing a very productive platform for the BBSHRRDB to use for the special training programs in various jobs oriented trades.
- Selected trainees came from the different districts of Karachi and it was difficult for them (especially girls) to attend daily classes, so scholarship may provide to the needy trainees on merit basis.

## EXPERTS VALIDATION

Assessed and validated the experts/trainers engaged by the JPMC in terms of the qualification and experience.

JPMC engaged 24 subject experts for selected 09 trades. List of exerts is showing that trainers engaged in different trades.

**Table-1: List of Tutors/Trainers:**

S. No	NO OF TUTORS	QULIFICATION	DESIGNATION
1	MR ABDUL WAHEED	M.PHILL	MASTER TRAINER
2	MR JAVED IQBAL	B.PHARMACY	MASTER TRAINER
3	MR HAQ NAWAZ	DISPENSER/B CATEGORY	MASTER TRAINER
4	MR FIDA HUSSAIN	DISPENSER	MASTER TRAINER
5	MR SHAH MUHAMMAD	M.PHILL	MASTER TRAINER
6	MR JAHANZAIB	M.PHILL	MASTER TRAINER
7	MR KARAN	BSC	MASTER TRAINER
8	MR NASIR ALI KHAN	MASTERS SURGICAL TECHNOLOGY	MASTER TRAINER
9	DR FEHMIDA QAMAR	MBBS	MASTER TRAINER
10	MR MOIN UDDIN	MASTER,S HOSPITAL MANGMENT	MASTER TRAINER
11	DR SHAHNILA	MBBS	MASTER TRAINER
12	MR NASEER	ANAETHSIA TECHNICIAN	MASTER TRAINER

S. No	NO OF TUTORS	QULIFICATION	DESIGNATION
13	MR LUQMAN	ANAETHSIA TECHNICIAN	MASTER TRAINER
14	DR SAIMA	MBBS	MASTER TRAINER
15	DR FARRUK	MBBS	MASTER TRAINER
16	MR MIR ALAM	MSC	MASTER TRAINER
17	DR FAYYAZ	MBBS	MASTER TRAINER
18	MR ILYAS	X-RAY TECHNICIAN	MASTER TRAINER
19	MR SHAHZAD MUGHAL	X-RAY TECHNICIAN	MASTER TRAINER
20	DR SARA	BDS	MASTER TRAINER
21	DR RIZWAN	BDS	MASTER TRAINER
22	DR MB ABBASI	MBBS, COMMUNITY EYE OPHTHALMOLOGIST	MASTER TRAINER
23	MR FAROOQ	BSC	MASTER TRAINER
24	MISS ATIYA	BSC	MASTER TRAINER

**During the visit following trainers were available and conducted interviews.**

- MR ABDUL WAHEED
- MR JAVED IQBAL
- MR HAQ NAWAZ
- MR FIDA HUSSAIN
- MR SHAH MUHAMMAD

- MR JAHANZAIB
- MR KARAN
- MR NASIR ALI KHAN
- DR FEHMIDA QAMAR
- MR MOIN UDDIN
- DR SHAHNILA
- MR NASEER
- MR LUQMAN
- MR FAROOQ
- DR SARA
- MR SHAHZAD MUGHAL

The above mentioned experts were met individually at their department and validated their engagement in the trainings organized under BBSHRRDB. During the discussion, all trainers confirmed that engagement in the training sessions.

It was observed and verified that experts are well professional and trained in their respective field and provided valuable feedback to improve the training sessions and programs.

**Table-02: Scope of Work**

<b>PARTICULARS</b>	<b>DETAILS</b>
Enrolments (Trainees)	293
Targeted Gender	Male/Female
Institute	Jinnah Postgraduates Medical Center (JPMC)
Sponsor	Benazir Bhutto Shaheed Human Resources Research & Development Board [BBSHRRDB]
Number of trades	9
Geographical Coverage	Karachi, Sindh Province, Pakistan
Age Limited of Trainees	18-35 Years
Entry Qualification of Trainees	Minimum Matric/Intermediate

**Table-03: list of Trades**

<b>TRADES</b>	<b>NUMBER OF TRAINEES</b>
DISPENSER	50
LABORATORY	47
OT TECHNICIAN	30
BLOOD BANK	18
ANAESTHSIA	29
EMT	30
X-RAY	30
DSA	30
OPHTHALMOLOGY	30

### **VALIDATION OF CURRICULUM USED IN THE TRAINING:**

The PMU-BBSHRRDM-JPMC has all the contents courses and detailed scheme of lessons used for the training of the youth program.

1. DISPENSER
2. OPERATION THEATRE TECHNICIAN
3. LABORATORY TECHNICIAN
4. BLOOD BANK TECHNICIAN
5. X – RAY TECHNICIAN
6. DENTAL SURGERY ASSISTANT
7. ANESTHESIA TECHNICIAN
8. EMERGENCY MEDICAL TECHNICIAN
9. OPTHALMOLOGY

### **VALIDATED TRAINING DELIVERY:**

- All training was organized as per agreement with BBSHRRDB.
- The sessions planned properly before scheduled of the training and confirmed from the available schedules at the training venue and also confirmed by the trainers/experts.
- Developed material also verified during the visit of institute
- Trainers confirmed and asked that sessions were designed for the trainees followed by the practical sessions.

### **A sample session plan described below:**

- All the sessions at the end of every month were evaluated and tests were conducted from the trainees in their respective institute. These tests provided valuable feedback.
- The trainees were assessed by the master trainers/experts in accordance with predetermined evaluation requirements, as well as the management combined opinion.

### **VERIFIED TRAINING COMPLETION**

- The record was collected for the verification and confirmed that total batches and duration of the training. The record was available batch wise at the center and confirmed attendance of participants, during the training, and lesson plans.
- During the meeting, it was also confirmed that 312 registered for the training and attendance sheet also verified.
- It was really appreciated efforts of the management of JPMC because schedules of the examination also checked and exams were held as per plan. All the trainees received respective certificates timely.

### **CHECK AND VERIFICATION OF THE INSTITUTION CERTIFICATION:**

- JPMC is one of the reputed Medical University of Pakistan and is degree awarding institute so certificates were awarded by the concern institute.
- Verified 40% employment of the Graduates (self or wage employment):
- The most important aspects of the youth skill development programs is job creation and following is a breakdown of the current status of the graduate trainees.
- Support for graduated trainee's employment: The authorities stated that the program assisted trainees in identifying appropriate work advertisements, and the vast majority of trainees confirmed. The authorities have stated that the program assisted with work applications and job interview training, which a large majority of trainees agree with.

**Designed Courses for the Trainees Subject Wise:**

**Table-04: 1. Dispenser's Course - Outline**

Theory - Part - 01	Practical - Part - 02
<ul style="list-style-type: none"> <li>• General pharmacology</li> <li>• Systemic pharmacology</li> <li>• Therapeutics &amp; chemotherapy</li> <li>• Handling of emergencies</li> </ul>	<ul style="list-style-type: none"> <li>• Introduction</li> <li>• Weights and measure</li> <li>• Labeling and packing of drugs</li> <li>• Percentage of solution</li> <li>i. Prepare 0.5% Potassium Permanganate solution</li> <li>ii. Prepare 1:2000 Potassium Permanganate solution</li> <li>iii. Prepare 0.5% Permanganate solution from stock solution 2%</li> <li>iv. Prepare Iugol's Iodine sol. B.P</li> <li>v. Prepare 5% Dextrose in saline solution</li> </ul>
<p><b>Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Overview of the Human Anatomy</li> <li>2. Overview of the Human Physiology</li> <li>3. Various routes for administration of drugs</li> <li>4. Common disease and their concerned drugs</li> <li>5. Handling of common medical emergencies</li> <li>6. Identification and use of instruments used in wards and operation theatre</li> <li>7. Sterilization and Dis-infection of instruments</li> <li>8. Identification and preparation of various drugs formulation</li> </ol>	<p><b>External Preparation</b></p> <ul style="list-style-type: none"> <li>• Sulphur ointment</li> <li>• Zinc Oxide ointment</li> <li>• Lotions – Calamine lotion</li> <li>• Liniments – Turpentine liniment</li> <li>• Liquids preparation</li> <li>• Mixtures – Carminatives mixtures</li> <li>• Suspension – Kaolin suspension</li> </ul>
<p><b><u>PHARMACY</u></b></p>	<p><b>Powder</b></p>

Theory - Part - 01	Practical - Part - 02
<ul style="list-style-type: none"> <li>• Introduction of the subject</li> <li>• Pharmacology and its branches</li> <li>• Definitions used in Pharmacy, student can understand the terminology</li> <li>• Weights and measure, student should know the different systems of measurement</li> <li>• Common terminology (Used in wards and laboratory)</li> <li>• Duties of dispensers – students should be told limit of responsibilities</li> <li>• Instruments used in Pharmacy</li> <li>• Sterilization – types of sterilization + methods of sterilization</li> <li>• Antiseptic and disinfectant</li> <li>• Pharmacy – name of the drugs and types</li> <li>• Percentage of solutions</li> <li>• Prescription and abbreviation</li> </ul>	<ul style="list-style-type: none"> <li>• Simple powder</li> <li>• Compound powder</li> </ul>
<p><b><u>GENERAL PHARMACOLOGY</u></b></p> <ul style="list-style-type: none"> <li>• Vaccination – definition and types of vaccine, how these vaccines are formed and work</li> <li>• EPI – Measles, Polio, Diophtheria, Purtussis, Tetanus, BCG</li> <li>• Vaccination schedule</li> <li>• Routes of administration – classification, merits and demerits</li> <li>• Factors modifying Dose/ action of drug</li> </ul>	
<p><b><u>SYSTEMIC PHARMACOLOGY</u></b></p> <p><b>I – (G.I.T) – Etiology, sign and symptoms and treatment of G.I.T disease</b></p> <ul style="list-style-type: none"> <li>• Peptic ulcer – Antacids</li> </ul>	

Theory - Part - 01	Practical - Part - 02
<p>Anti ulcer drugs</p> <ul style="list-style-type: none"> <li>• Motility agents</li> </ul> <ol style="list-style-type: none"> <li>i. Emetics &amp; Anti Emetics</li> <li>ii. Antidiarrhoral</li> <li>iii. Purgatives <ul style="list-style-type: none"> <li>• Treatment of Amoebiosis</li> </ul> </li> </ol> <p><b>II- Respiratory System</b></p> <ul style="list-style-type: none"> <li>• Introduction of respiratory system</li> <li>• Expectorant and Antitussive drugs</li> <li>• Bronchitis – Etiology, sign, symptoms and treatment</li> <li>• Pneumonia – Etiology, sign, symptoms, treatment</li> <li>• Asthma – Etiology, sign, symptoms, treatment</li> <li>• Tuberculosis – Etiology, sign, symptoms, treatment</li> </ul> <p><b>III – C.N.S</b></p> <ul style="list-style-type: none"> <li>• Introduction of C.N.S</li> <li>• Sedatives</li> <li>• Analgesics</li> <li>• Narcotics and non Narcotics</li> <li>• Antipyretics</li> </ul> <p><b>A.N. S</b></p> <ul style="list-style-type: none"> <li>• Drugs acting on A.N.S</li> <li>• Adrenaline</li> <li>• Non – adrenaline</li> <li>• Dopamine</li> <li>• Ephedrine</li> <li>• Salbutamol</li> </ul> <p><b>IV – C.V.S</b></p> <ul style="list-style-type: none"> <li>• Drugs acting on C.V.S</li> </ul>	

Theory - Part - 01	Practical - Part - 02
<ul style="list-style-type: none"> <li>• Anti hypertensive drugs – student should know the normal and raised B.P its treatment</li> <li>• Angina – raised B.P its treatment what is angina, its causes and treatment</li> <li>• C.C.F Congestive Cardiac Failure etiology, sign, symptoms, treatment</li> </ul> <p><b>V- Blood</b></p> <ul style="list-style-type: none"> <li>• Physiology of blood</li> <li>• Blood grouping</li> <li>• Blood transfusion</li> <li>• Co – aggulation and Anti – Coagulation</li> <li>• Jaundice – types and treatment</li> </ul> <p><b>THERAPEUTICS</b></p> <p>Mode of action, indication, contra – indication and side effect of</p> <ol style="list-style-type: none"> <li>i. Penicillin</li> <li>ii. Tetracycline</li> <li>iii. Cephalosporin</li> <li>iv. Amino glycosides</li> <li>v. Macrolides</li> <li>vi. Sulphonamides</li> <li>vii. Treatment of Meningitis – causes, sign, symptoms and treatment</li> <li>viii. Treatment of Malaria – life cycle and treatment</li> </ol> <p><b>E- HANDLING OF EMERGENCIES</b></p> <ul style="list-style-type: none"> <li>• Heart Attack</li> <li>• Treatment of Poisons</li> <li>• Snake bite</li> <li>• Morphine poisoning</li> <li>• Barbiturate poisoning</li> </ul>	

Theory - Part - 01	Practical - Part - 02
<ul style="list-style-type: none"> <li>• Alcohol poisoning</li> <li>• Strychnine poisoning</li> <li>• Acid poisoning</li> <li>• Road traffic accidents</li> <li>• Heat stroke</li> <li>• Burns</li> <li>• Incompatibility</li> <li>• Shock – types and treatment</li> <li>• First aid</li> </ul>	

## 2. O.T TECHNICIAN

Theory	Practical
<p><b>OPERATION THEATRE</b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Organization</li> <li>• Discipline</li> <li>• Dressing, scrubbing, gowning, gloving</li> </ul> <p><b>STERILIZATION</b></p> <ul style="list-style-type: none"> <li>• Definition</li> <li>• Different methods of sterilization</li> <li>• Sterilization of different equipments</li> </ul> <p><b>DUTIES OF O.T TECHNICIAN</b></p> <p><b>OPERATION TABLE</b></p> <ul style="list-style-type: none"> <li>• Parts &amp; Adjustment</li> <li>• Positions for different operation</li> <li>• Diathermy</li> </ul> <p><b>ANAESTHESIA</b></p> <ul style="list-style-type: none"> <li>• Definition</li> </ul>	<p>Rotation of at least two months in General Surgery Theatre &amp; one month in other theatres including Gynae, Orthopedics, ENT, Eye, Neurosurgery, Pediatric Surgery, Vascular surgery, Plastic Surgery, Cardiac Surgery &amp; Emergency Theatre.</p>

Theory	Practical
<ul style="list-style-type: none"> <li>• Anaesthetic Equipment</li> <li>• General Anaesthesia</li> <li>• Spinal Anaesthesia</li> <li>• Regional anaesthesia</li> </ul> <p><b>INSTRUMENTS</b></p> <ul style="list-style-type: none"> <li>• General surgery</li> <li>• Abdominal surgery</li> <li>• Head &amp; Neck Surgery</li> <li>• Chest surgery</li> <li>• Genitourinary surgery</li> <li>• Orthopedic surgery</li> <li>• ENT surgery</li> <li>• Gynae &amp; obs. Surgery</li> <li>• Eye surgery</li> <li>• Neurosurgery</li> <li>• Vascular surgery</li> </ul> <p><b>COMMON SURGICAL PROCEDURES IN BRIEF</b></p> <ul style="list-style-type: none"> <li>• General surgery</li> <li>• Gynae &amp; obs</li> <li>• Orthopedic surgery</li> <li>• ENT surgery</li> <li>• Eye surgery</li> <li>• Neurosurgery</li> <li>• Vascular surgery</li> </ul>	

### 3. LABORATORY

Theory	Practical
<p><b>ANATOMY AND PNHYSIOLOGY</b></p> <p>Basic principles - Human skeleton – Short description of principal muscles – General ideas about brain – cranial and spinal nerves. Brief</p>	<p><b>LABORATORY/PROCESSES</b></p> <p>Concentration, incubation, culture, animal inoculations, collection of specimen,</p>

Theory	Practical
<p>description of viscera and internal organs of special senses. Physiology of Respiratory, Circulatory, Digestive Urinary and Nerous System.</p> <p><b>LABORATORY</b> General – Hot air – Autoclave – Chemical</p> <p><b>BACTERIOLOGY</b> General – Basic principles – Bacteriology of Tuberculosis different methods of demonstrating – Tubercular – B.C.G</p> <p><b>PARASITOLOGY</b> General – Diseases caused by Parasites – Laboratory methods.</p> <p><b>MEDIA</b> General – Principles of media making <b>CHEMICAL SOLUTIONS</b> General – Preparation – their use in the Laboratory.</p> <p><b>HAEMATOLOGY</b> General – Red and White Blood Cell count – Differential ESR, bleeding &amp; clotting time.</p> <p><b>BIOCHEMISTRY</b> General – Blood – Urine etc. Blood Sugar, Blood Urea, Serum, Bilirubin</p> <p><b>SEROLOGY</b> Widal Test, Kahn’s Test</p>	<p>staining techniques, care of laboratory equipment and glass wares.</p>

#### **4. BLOOD BANK – TRANSFUSSION**

Theory	Practical
<p><b>BOOKS RECOMMENDED</b></p> <ul style="list-style-type: none"> <li>• A text book of blood Banking and transfusion medicine by U.H Talib/AD Dutta Safe Blood and Blood products + safe blood donation module.</li> <li>• + Module 2 – Screening for HIV &amp; other infectious agents.</li> <li>• (Published by World Health Organization)</li>   <li>• Safe Blood and Blood products (Trainer’s guide)</li> <li>• (Published by World Health Organization)</li> <li>• Safe Blood and Blood products</li> <li>• Introductory Module – guidelines and principles for safe blood transfusion practice.</li> </ul> <p>(Published by World Health Organization)</p>	<p><b>PRACTICAL KNOWLEDGE</b></p> <ol style="list-style-type: none"> <li>1. Blood Grouping. RH factor, Cross matching</li> <li>2. Motivate people for donating blood</li> <li>3. Camping and collection of blood</li> <li>4. Safe transportation of collected blood to blood bank</li> <li>5. Safe storage of blood in bags with Anticoagulant and at refereed temperature</li> <li>6. Selection of donors, Medical and Physical examination and proper history relating family donors to be prepared and professional donors to be rejected</li> <li>7. Proper screening of blood collected particularly (HIV, Hbs, HCV, VDRL,MP, HB estimation, Blood CP, ESR for detecting any other blood dyscrasis (disease) like Anemia, Theleseemia, Haemophilia, Leukaemia, Thrombocytopenia, Polycythaemia etc.)</li> <li>8. Proper sterilization of instruments used in Laboratory</li> <li>9. Knowledge of safe disposable of syringes and bags etc</li> </ol>

Theory	Practical
	<p>10. Proper knowledge of instruments used in Blood Bank. Eg. Slides, Test Tubes, Microscope, Elisa, Centrifuge Machine, Sahlis Haemoglobinometer.</p> <p>Minimum Qualification of Trainee Technician Inter Science (Medical Group)</p>

## **5. X – RAY**

Theory	Practical
<p><b>SECTION – I</b></p> <p><b>Physics</b></p> <ol style="list-style-type: none"> <li>1. Introduction of X- rays &amp; production of X- rays (X – ray Tube)</li> <li>2. Generators, Transformers, Rectifiers</li> <li>3. Physics of Radiographic image &amp; its formation</li> <li>4. Radiographic factors</li> <li>5. Operation of X-ray machine</li> <li>6. Grinds and prevention of scattered radiation</li> <li>7. X-rays films, cassettes &amp; intensifying screens : their construction and uses</li> <li>8. Chemicals and film processing</li> <li>9. Film faults</li> <li>10. Dark room: manual &amp; automatic</li> <li>11. Some special Radiographic techniques. Image intensifier &amp; Tomography</li> <li>12. Radiation hazards &amp; protection</li> </ol>	<p><b>SECTION – II</b></p> <p><b>Procedures</b></p> <ol style="list-style-type: none"> <li>1. Contrast media: their reactions and prevention</li> <li>2. Barium Swallow: meal, follow, through &amp; enema, procedure &amp; preparation</li> <li>3. Oral cholecystography: procedure</li> <li>4. T- tube cholangiography: procedure</li> <li>5. Sialography: procedure</li> <li>6. IVP: procedure &amp; preparation</li> <li>7. Urethrograms : types &amp; procedures</li> <li>8. Myelography: procedure</li> <li>9. Hysterosalpingography</li> </ol>
<b>SECTION – III</b>	<b>SECTION - IV</b>

Theory	Practical
<b>Basic Anatomy</b> <ol style="list-style-type: none"> <li>1. Bones – Skeleton</li> <li>2. Gastrointestinal tract, spleen &amp; other ductless glands</li> <li>3. Urinary system</li> <li>4. Reproductive organs</li> <li>5. Respiratory &amp; Circulatory system</li> </ol>	<b>Radiographic Positioning</b> <ol style="list-style-type: none"> <li>1. Upper limb</li> <li>2. Lower limb</li> <li>3. Vertebral column</li> <li>4. Chest</li> <li>5. Skull &amp; Facial bones</li> </ol>

## **6. DENTAL SURGERY ASSISTANT**

Theory	Practical
<b><u>DENTAL ANATOMY AND PHYSIOLOGY</u></b> <ol style="list-style-type: none"> <li>1. Basic knowledge of cranium and skeleton of face</li> <li>2. General anatomy of mandible and muscles of mastication</li> <li>3. Basic knowledge of oral cavity and hard palate</li> <li>4. Salivary glands early development of teeth</li> <li>5. Dentition – deciduous, permanent and mixed               <ol style="list-style-type: none"> <li>1- Dates of eruption of teeth</li> <li>2- Structure of teeth and function of these structures</li> <li>3- Function of teeth</li> <li>4- Morphology of teeth</li> <li>5- Peridontium</li> </ol> </li> </ol>	<b><u>DENTAL ASSISTANTS SKILLS</u></b> <ol style="list-style-type: none"> <li>1. Use and care of motor dental chair and unit</li> <li>2. Names and function of different used in dentistry</li> <li>3. Maintenance of instruments</li> <li>4. Names, uses and manipulation of dental material</li> <li>5. Mixing of plaster and making of models</li> <li>6. Knowledge of sterilization and various methods of sterilization</li> <li>7. Assistant in dental health education</li> </ol>
<b>Basic Anatomy</b> <ol style="list-style-type: none"> <li>6. Bones – Skeleton</li> </ol>	

Theory	Practical
7. Gastrointestinal tract, spleen & other ductless glands 8. Urinary system 9. Reproductive organs 10. Respiratory & Circulatory system	

## 7. ANESTHESIA TECHNICIAN

Theory	Practical
<b>Details of the syllabus given below</b>  1 general survey of human body – soft part & bony components 2 general survey of human skeleton with emphasis on neck, thoracic cage & joints 3 C.V.S Venous drainage. Neck – upper limb, lower limb 4 C.V.S Heart arterial system 5 Resp system, upper airway, nose, mouth, Larynx, Pharynx 6 Respiration System, lower airway – Trachea – Lungs 7 Respiration system, some details of thorax with all its all organs & organization of all chest visera. 8 Abdomen – Gen survey, abd, wall, organization of abdominal visera 9 Abdomen – some detail of abd. Visera 10 Perineum – survey & land marks 11 Upper limb 12 Lower limb 13 Head & Neck	<b>a- EQUIPMENTS</b> <ul style="list-style-type: none"> <li>• To get familiarized and acquainted with the working of</li> <li>• Anesthesia machine/ apparatus</li> <li>• Ventilators</li> <li>• Blood pressure monitor / apparatus</li> <li>• ECG monitor</li> <li>• Pulse Ox meter</li> <li>• Other monitor eg. CVP</li> <li>• Other equipment's eg. Syr. Pumps</li> <li>• Laryngoscopes</li> <li>• L.M Airway &amp; other airways</li> <li>• All Anesthesia ancillaries / circuits</li> <li>• Suction apparatus</li> <li>• Medical gas supply / source eg. O<sub>2</sub> &amp; N<sub>2</sub>O supply (Cylinders, Manifold, Pipeline)</li> </ul>

Theory	Practical
14 CNS, Brain, body supply, component etc 15 Autonomic Nervous system 16 Dermatomes – Gen, outlook 17 Vertebral column 18 Spinal cord 19 Meninges , CSF 20 Anatomical positions during surgery their consequences and sequileae	
<b>2- PHYSIOLOGY</b> 2-1 cell & its functions 2-2 composition of body fluids 2-3 body fluid compartments 2-4 Movement of fluids & substances between compartments 2-5 cell membrane & membrane potential 2-6 Sodium & Potassium distribution 2-7 Acidosis, Alkalosis, PH & buffers 2-8 Nerve Cell, Electrical phenomena 2-9 Skeletal muscle, electrical phenomena 2-10 NMJ & 10 NIC fluxes 2-11 Respiration – pulmonary functions 2-12 Gas exchange in lungs & gas transport 2-13 Control of respiration 2-14 Applied resp. Physiology, hypoxia cyanosis, hypercarbia, effect of exercise. 2-15 Oxygen treatment, artificial ventilation 2-16 Cardiovascular system, circulation of blood 2-17 CVS Origin of heart beat, spread of electrical activity ECG 2-18 Cardiac cycle cardiac output 2-19 Regulatory Mechanism of CVS	<b>b- PROCEDURES</b> To get familiarized & acquainted with the practical procedure of <ul style="list-style-type: none"> <li>• Intravenous Anesthesia</li> <li>• Inhalational induction</li> <li>• Balanced anesthesia</li> <li>• I.V lines/C.V P lines /Art. Lines</li> <li>• Endotracheal intubation</li> <li>• Spinal anesthesia</li> <li>• Epidural anesthesia</li> <li>• Different positions of patients</li> <li>• I.V infusions</li> <li>• Blood transfusion</li> <li>• Principles of CPR &amp; BLS</li> <li>• Maintenance of gas cylinders &amp; ancillary equipment</li> <li>• Maintenance &amp; disinfection of Anesthesiacircuits &amp; equipment</li> </ul>

Theory	Practical
<p>2-20 Heart Failure, Shock , Hypertension, Hypotension</p> <p>2-21 Autonomic out flow – Anatomic survey</p> <p>2-22 Chemical transmission at autonomic junction</p> <p>2-23 CNS – General survey &amp; introduction</p> <p>2-24 CNS – General survey &amp; different components</p> <p>2-25 Endocrine system – Introduction</p> <p>2-26 Thyroid glands, hyper &amp; hypo function – Gen survey</p> <p>2-27 Pancreas – Diabetes, insulin, Hyperglycaemia, &amp; Hypoglycaemia – Gen survey</p> <p>2-28 Adrenal Medula &amp; cortex – Adrenaline etc. – Gen survey</p> <p>2-29 Calcium metabolism &amp; pituitary gland hormones</p> <p>2-30 Metabolism – Gen survey</p> <p>2-31 Digestion &amp; Absorption – Gen survey</p> <p>2-32 Regulation of gastrointestinal functions and liver function</p> <p>2-33 Renal system – Gen survey</p> <p>2-34 Functional Anatomy of renal system</p> <p>2-35 otherfunctions of kidney – Renin, Angiotensin</p> <p>2-36 Effect of renal function disorders</p>	
<p><b>3- PHARMACOLOGY</b></p> <p>3-1 introduction to Pharmacology Pharmacodynamics and Pharmacokinetics</p> <p>3-2 General principles, Importance of labeling &amp; dosage.</p>	<p><b>c- PATIENT CARE</b></p> <ul style="list-style-type: none"> <li>• Pre- anaesthetic patient management, identification files check, medication, etc.</li> </ul>

Theory	Practical
<p>3-3 Drugs used in Premedication – Sedatives antisiologues</p> <p>3-4 I.V induction agents</p> <p>3-5 I.V induction agents</p> <p>3-6 Inhalational agents, short survey of earlier agents and present agents used</p> <p>3-7 Inhalational agents</p> <p>3-8 Muscle relaxants</p> <p>3-9 Muscle relaxants</p> <p>3-10 Analgesics basic classification</p> <p>3-11 Analgesics, peri operative use</p> <p>3-12 Analgesics Post – op use</p> <p>3-13 Sedatives – in Post op. use</p> <p>3-14 N.M.J reversal drugs</p> <p>3-15 Drugs used as adjuvant &amp; during Anesthesia eg . Atropine</p> <p>3-16 Important drugs – 1 – ( For Resuscitation Adv. Solucortif Calci . Hco3)</p> <p>3-17 Important drugs – II</p> <p>3-18 Miscellaneous drugs, Drugs interactions</p> <p>3-19 Local Analgesic / anesthetic drugs, Xylocain</p> <p>3-20 Drugs used I spinal and epidural Anesthesia</p>	<ul style="list-style-type: none"> <li>• Preoperative care, monitoring, fluid balance, urine output, care of lines, care of eyes, limbs, airways etc.</li> <li>• Post operative care and management’s airway maintenance, pain management, secretions etc. transfer to recovery room or ward.</li> </ul>
<p><b>4- PHYSICS &amp; EQUIPMENTS</b></p> <p>4-1 Introduction &amp; importance of physics in Anesthesia</p> <p>4-2 Gas laws</p> <p>4-3 Principles of flow meter</p> <p>4-4 Vaporization &amp; Vaporizers</p> <p>4-5 Pressure reducing in anesthesia</p> <p>4-6 Gases used in Anesthesia</p> <p>4-7 Gas supply to anasth. Machine</p>	

Theory	Practical
4-8 Different anapest. Circuits 4-9 Anesthesia Machine 4-10 Ventilators – Gen Survey/ Principle	
<b>4- PATHOLOGY</b> 5-1 Gen. Understanding of Path physiology of different disease 5-2 Gen. Survey of malfunctioning of non-function of different body organs 5-3 Gen. Survey of malfunctioning or non-function of different body organs 5-4 Gen. Survey of malfunctioning or non-function of different body organs 5-5 Gen. Survey of malfunctioning or non function of different body organs	

## 8. EMERGENCY MEDICAL TECHNICIAN COURSE

▪ Emergency trauma centre	▪ First aid and first aid kit
▪ Triage	▪ Disaster
▪ Fracture	▪ Shock – coma
▪ Dehydration	▪ Burn scald
▪ Electric burn	▪ Stroke
▪ Angina pectoris	▪ Heart attack
▪ C.P.	▪ Dog bite (rabies)
▪ Obstetrics emergencies	▪ Hanging and strangulation
▪ Epistaxis	▪ Copper sulphate
▪ Head injury	▪ Geriatrics emergencies
▪ Spinal injury	▪ Insect bite
▪ Poisoning	▪ Sprain and strain
▪ Sulphric acid burn	▪ Bleeding/ haemorrhage
▪ Snake bite – scorpion sting	▪ Dislocation

▪ Muscular injuries	▪ Phosphorous compound poisoning pesticides spray poisoning
▪ Drowning	▪ Sun / heat stroke

## 9. Ophthalmology

### Anatomy And Physiology Of The Eye

OBJECTIVES	CONTENT	HOURS
Anatomy of the human eye & Adnesa	Terms, Definitions, & Functions	1-2 Hours
Structure of the Eyelid	Skin, Muscle Tarsal plate Conjunctiva & Function of Eyelid	
Orbit	Bones, Fissures & Contents: Extraocular Muscles, their functions Fixation, Fusion, Binocular Vision	
Eye Ball	Anatomy & Structure	1-2 Hours
<b><u>Three Layers:</u></b>		
	<p><b>Comea:</b></p> <p>Layears</p> <p>Avascularity</p> <p>Transparency &amp; Oedema</p> <p>Role of Endothelium</p> <p>Tear Film</p> <p><b>Middle Uveal Layer:</b></p> <p>(Iris, Ciliary Body, Choroid)</p>	

OBJECTIVES	CONTENT	HOURS
	Blood Vessels Pigment Cells Muscle Fibres <b>Retina (Neuro-Sensory retina)</b> Retinal pigment epithelium	<b>Two Hours</b>
<b>Pupil</b>	Pupillary Pathways and Light Reflexes (Direct and Consensual)	<b>Two Hours</b>

**OCULAR EXAMINATION TECHNIQUES & DIAGNOSTIC TESTS.**

OBJECTIVES	CONTENT	HOURS
<b>Accurate History Taking</b>	<b>Basics &amp; Techniques of History Taking</b>	<b>One Hour</b>
	<b><u>TOPICS:</u></b> 1. Loss OF Vision 2. Pain in & around the Eye 3. Abnormal Discharge 4. Abnormal Appearance	
Learn to Check & Record Visual Acuity	Visual Acuity Testing (in Adults & Children & Recording (For distance & near) (with & without Glasses) Pinhole Test & its Significance	<b>One Hour</b>

OBJECTIVES	CONTENT	HOURS
External Ocular Examination	With Focal Illumination, Binomag & Slkit lamp i) Lids – Position Of Lashes & Lid Margin, Cysts & Blepharitis ii) Lacrimal Sac Regurgitation Test iii) Upper Lid Eversion iv) Corneal Examination for, a) Coneal Light Reflexes b) Transparency c) Nothing the site, Size & Density of Opacity d) Fluorescein Staining V) Pupillary Light Reflexes & the Pathway, (& Swinging Flash Light Test)	
Internal Ocular Examination	Anterior Segment Examination <ul style="list-style-type: none"> <li>• Cornea (&amp; Staining)</li> <li>• Anterior               <ul style="list-style-type: none"> <li>○ Depth</li> <li>○ Aqueous</li> <li>○ Flare &amp; Cells</li> </ul> </li> <li>• Iris &amp; Pupil</li> <li>• Lens</li> </ul>	One Hour
Ophthalmology	Direct Distant Ophthalmoscopy for: Red Reflex Opacties in Media	
Intraocular Pressure Measurement	Digital Indentation(Schiotz) Applanation (Goldmann, Tonopen)	

## **KNOWLEDGE OF INSTRUMENT THEIR CARE AND MAINTAINANCE**

- Torch
- Binomag
- Ophthalmoscope
- Indirect Ophthalmoscope & Lenses
- Slit Lamp & Accessories
- Tonometer (Schmitz, Goldman)
- Goniolens
- Mirror Lens
- 78 D (90 D) Lens
- Laser Lenses
- Goldmann Perimeter
- Ultrasound Scanner
- Surgical Instruments
- Operating Microscope
- Vasectomy Machine
- Phacocmulsicfication Machine

## **DISEASE AND DISORDERS OF THE EYE**

### **OBJECTIVES:**

The Ophthalmic Technicians should be able to :

Recognise most of the common eye diseases,

**Table-05: List of Trainees****Trade: Anesthesia Technician**

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
1	ALI RAZA	4250150538007	Anesthesia Technician	Male	√	√	√	√	√
2	Azad Ali	4510511285939	Anesthesia Technician	Male	√	√	√	√	√
3	DAWOOD ARIF	4230156695783	Anesthesia Technician	Male	√	√	√	√	√
4	FARZEEN AKHTAR	4240140191302	Anesthesia Technician	Male	√	√	√	√	√
5	HARRY	4230101243649	Anesthesia Technician	Male	√	√	√	√	√
6	HONEY	4220179969513	Anesthesia Technician	Male	√	√	√	√	√
7	HOURAIN	4220120115984	Anesthesia Technician	Male	√	√	√	√	√
8	JAHANZAIB HASSAN	4210123262885	Anesthesia Technician	Male	√	√	√	√	√
9	JUNAID KHAN	4220174693445	Anesthesia Technician	Male	√	√	√	√	√
10	KASHIF ALI	4530291568087	Anesthesia Technician	Male	√	√	√	√	√
11	KAWISH MINHAS	4230104769739	Anesthesia Technician	Male	√	√	√	√	√
12	KLARENCE	4220114146709	Anesthesia Technician	Male	√	√	√	√	√
13	LARAIB	4220180641639	Anesthesia Technician	Male	√	√	√	√	√
14	Muhammad Afraz	4150603961473	Anesthesia Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
15	MUHAMMAD ALI	4230137460225	Anesthesia Technician	Male	√	√	√	√	√
16	MUHAMMAD DANİYAL ARIF	4210155106647	Anesthesia Technician	Male	√	√	√	√	√
17	MUHAMMAD MUZAMIL	4240124375719	Anesthesia Technician	Male	√	√	√	√	√
18	MUHAMMAD SIDDIQUE	4430186115593	Anesthesia Technician	Male	√	√	√	√	√
19	MUHAMMAD UMAIR	4250197544571	Anesthesia Technician	Male	√	√	√	√	√
20	MUSKAN ZAKIR	4230136647468	Anesthesia Technician	Female	√	√	√	√	√
21	Nazeer Ahmed	4410380023379	Anesthesia Technician	Male	√	√	√	√	√
22	NISAR PARVEZ	4250133689229	Anesthesia Technician	Male	√	√	√	√	√
23	RAWAL KHAN	4520685781907	Anesthesia Technician	Male	√	√	√	√	√
24	SAEED AHMED	4340704521497	Anesthesia Technician	Male	√	√	√	√	√
25	SAIF ALI KHAN	4230154976891	Anesthesia Technician	Male	√	√	√	√	√
26	SAMEER AKHTAR	4230157942409	Anesthesia Technician	Male	√	√	√	√	√
27	SANA BIBI	3710602154292	Anesthesia Technician	Male	√	√	√	√	√
28	SHARJEEL REHMAT	4220184964285	Anesthesia Technician	Male	√	√	√	√	√
29	ZOYA PHOOL	4220130232380	Anesthesia Technician	Male	√	√	√	√	√

### Blood Bank Technician

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
1	ABDUL REHMAN	4130555826465	Blood Bank Technician	Male	√	√	√	√	√
2	AKBAR ALI	4530467556221	Blood Bank Technician	Male	√	√	√	√	√
3	ANWAR ALI	4420497265443	Blood Bank Technician	Male	√	√	√	√	√
4	AYESHA	4240125158170	Blood Bank Technician	Female	√	√	√	√	√
5	BISMA	4250113160720	Blood Bank Technician	Female	√	√	√	√	√
6	CAROL SHAKEEL	4230158834390	Blood Bank Technician	Female	√	√	√	√	√
7	DEEPAK	4220187295653	Blood Bank Technician	Male	√	√	√	√	√
8	JAWERIYA JAWED	4220155989494	Blood Bank Technician	Female	√	√	√	√	√
9	MEHAR ALI KHAN	4230160002659	Blood Bank Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
10	MUBEENA	4250192683822	Blood Bank Technician	Female	√	√	√	√	√
11	MUHAMMAD ARSALAN	4230159552017	Blood Bank Technician	Male	√	√	√	√	√
12	MUHAMMAD IRFAN SHAH	4220177924139	Blood Bank Technician	Male	√	√	√	√	√
13	SHAHBAZ MOIN	4220169797915	Blood Bank Technician	Male	√	√	√	√	√
14	SHAYAN FATIMA BILAL	4130483756688	Blood Bank Technician	Female	√	√	√	√	√
15	SIDRA	4220157344266	Blood Bank Technician	Female	√	√	√	√	√
16	TALIA PARVEEN	4240149365828	Blood Bank Technician	Female	√	√	√	√	√
17	USAMA	4210170286497	Blood Bank Technician	Male	√	√	√	√	√
18	ZEESHAN AHMED	4200053878023	Blood Bank Technician	Male	√	√	√	√	√

### Dental Technician

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
1	ABDUL KARIM	4520665899717	Dental Technician	Male	√	√	√	√	√
2	ABDUL QADEER	4430189502717	Dental Technician	Male	√	√	√	√	√
3	ADEEL AHMED	4220147937357	Dental Technician	Male	√	√	√	√	√
4	AQSA AYUB	4230168661880	Dental Technician	Female	√	√	√	√	√
5	Bilawal khan	4550270651913	Dental Technician	Male	√	√	√	√	√
6	FAISAL	4410903611201	Dental Technician	Male	√	√	√	√	√
7	GHAZAL E AHMED	4230173711322	Dental Technician	Female	√	√	√	√	√
8	HASNAIN ASLAM	4230186715989	Dental Technician	Male	√	√	√	√	√
9	IRFAN HAIDER	7120151854991	Dental Technician	Male	√	√	√	√	√
10	KHURRAM SHAHZAD	4230121476858	Dental Technician	Male	√	√	√	√	√
11	MASHOQUE ALI	4410735368769	Dental Technician	Male	√	√	√	√	√
12	MUHAMMAD AFZAL	4110428285695	Dental Technician	Male	√	√	√	√	√
13	MUHAMMAD AMMAR	4240169288547	Dental Technician	Male	√	√	√	√	√
14	MUHAMMAD HASEEB	4220156278397	Dental Technician	Male	√	√	√	√	√
15	MUHAMMAD SOHAIL	4230104624253	Dental Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
16	MUHAMMAD UMER FAROOQ	4220122927697	Dental Technician	Male	√	√	√	√	√
17	MUHAMMAD WALEED	4220128309161	Dental Technician	Male	√	√	√	√	√
18	MUSHTAQUE AHMED	4520881471317	Dental Technician	Male	√	√	√	√	√
19	MUZAMMIL ALI	4220181261489	Dental Technician	Male	√	√	√	√	√
20	NABEEL NAEEM	4210168210581	Dental Technician	Male	√	√	√	√	√
21	Rano Khan	4430170293673	Dental Technician	Male	√	√	√	√	√
22	RIMSHA	4240118907312	Dental Technician	Female	√	√	√	√	√
23	SHAFIQ AHMED	4350204263745	Dental Technician	Male	√	√	√	√	√
24	SHAHWAIZ ALI	4120378721323	Dental Technician	Male	√	√	√	√	√
25	SIDRA BIBI	4220192611248	Dental Technician	Female	√	√	√	√	√
26	SIMRAN GEORGE	4230180487104	Dental Technician	Female	√	√	√	√	√
27	TALHA ALI KHAN	4220184398285	Dental Technician	Male	√	√	√	√	√
28	UBAID UR REHMAN	4220135705645	Dental Technician	Male	√	√	√	√	√
29	UMAR NOOR	4240151599661	Dental Technician	Male	√	√	√	√	√
30	UROOJ	4140965108394	Dental Technician	Female	√	√	√	√	√

### Dispenser Technician

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
1	ABDUL BASIT	4220159488233	Dispenser Technician	Male	√	√	√	√	√
2	ABDUL RAUF	4350405473801	Dispenser Technician	Male	√	√	√	√	√
3	ABDUL WAHAB	4440124539433	Dispenser Technician	Male	√	√	√	√	√
4	AFAQ AHMED	4240131504567	Dispenser Technician	Male	√	√	√	√	√
5	AHTISHAM RAZA ZAHID	4250191264163	Dispenser Technician	Male	√	√	√	√	√
6	ALI KHAN	4320161673961	Dispenser Technician	Male	√	√	√	√	√
7	ALI RAZA	4540247085019	Dispenser Technician	Male	√	√	√	√	√
8	ANNAND KUMAR	4440413526631	Dispenser Technician	Male	√	√	√	√	√
9	ARIF ALI	4420139100219	Dispenser Technician	Male	√	√	√	√	√
10	ARMAN	4230193095929	Dispenser Technician	Male	√	√	√	√	√
11	ARSHAD ALI	4420421782609	Dispenser Technician	Male	√	√	√	√	√
12	ASHAN LIAQUAT	4240117161585	Dispenser Technician	Male	√	√	√	√	√
13	ASIF HUSSAIN	4420406977489	Dispenser Technician	Male	√	√	√	√	√
14	AZHAR SAEED	4230116325083	Dispenser Technician	Male	√	√	√	√	√
15	DANISH ALI	4230190234531	Dispenser Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
16	DILSHAD ALI	4120142340103	Dispenser Technician	Male	√	√	√	√	√
17	FARMANULLAH	4240189286267	Dispenser Technician	Male	√	√	√	√	√
18	GHULAM MURTAZA	4420474934311	Dispenser Technician	Male	√	√	√	√	√
19	HABIB ULLAH	4430312699243	Dispenser Technician	Male	√	√	√	√	√
20	HAMMAD KHAN	4230141746595	Dispenser Technician	Male	√	√	√	√	√
21	HANS RAJ	4420297055299	Dispenser Technician	Male	√	√	√	√	√
22	MAMOON UR RASHEED	4240132579075	Dispenser Technician	Male	√	√	√	√	√
23	MARYAM RAMZAN	4530233299874	Dispenser Technician	Male	√	√	√	√	√
24	MIANDAD	4430178256425	Dispenser Technician	Male	√	√	√	√	√
25	MOHSAN ALI	4530270721781	Dispenser Technician	Male	√	√	√	√	√
26	MUHAMMAD AMAN	4220190501403	Dispenser Technician	Male	√	√	√	√	√
27	MUHAMMAD AQIB	4220139238339	Dispenser Technician	Male	√	√	√	√	√
28	MUHAMMAD ASAD	1510195418389	Dispenser Technician	Male	√	√	√	√	√
29	MUHAMMAD DANİYAL ABBASI	4130387137855	Dispenser Technician	Male	√	√	√	√	√
30	MUHAMMAD HASEEB	4410381185303	Dispenser Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
31	MUHAMMAD HASNAIN KHAN	4230165738709	Dispenser Technician	Male	√	√	√	√	√
32	MUHAMMAD HUZAIFA	4250155368113	Dispenser Technician	Male	√	√	√	√	√
33	MUHAMMAD KASHIF	4230189416197	Dispenser Technician	Male	√	√	√	√	√
34	MUHAMMAD SAMI	4220181165645	Dispenser Technician	Male	√	√	√	√	√
35	MUHAMMAD SHOAB	4260403641599	Dispenser Technician	Male	√	√	√	√	√
36	MUJAHID ALI	4120208890497	Dispenser Technician	Male	√	√	√	√	√
37	MUKHTIAR ALI	4430184314641	Dispenser Technician	Male	√	√	√	√	√
38	NADEEM	4350204347755	Dispenser Technician	Male	√	√	√	√	√
39	QAISER MUSTAFA	4130602739057	Dispenser Technician	Male	√	√	√	√	√
40	RAHOLE	4440450975673	Dispenser Technician	Male	√	√	√	√	√
41	RASHID HUSSAIN	4340205567129	Dispenser Technician	Male	√	√	√	√	√
42	RIZWAN ALI	4220171803993	Dispenser Technician	Male	√	√	√	√	√
43	SAAD HUSSAIN	4220128625911	Dispenser Technician	Male	√	√	√	√	√
44	SAMIULLAH	4250155164559	Dispenser Technician	Male	√	√	√	√	√
45	SAQIB MEHMOOD	4230126856679	Dispenser Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
46	SHAFIQ UR REHMAN	4230189523219	Dispenser Technician	Male	√	√	√	√	√
47	SHOAIB AHMED	4320744143329	Dispenser Technician	Male	√	√	√	√	√
48	UMER HAYAT	4250168323579	Dispenser Technician	Male	√	√	√	√	√
49	WAJID ALI	4320396617717	Dispenser Technician	Male	√	√	√	√	√
50	WAQAR AZIZ	4420272558685	Dispenser Technician	Male	√	√	√	√	√

#### Emergency Medical Technician

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
1	ABDUL GHAFFAR KHAN	4240104845925	Emergency Medical Technician	Male	√	√	√	√	√
2	ABDUL HASSAN BARI	1730145470233	Emergency Medical Technician	Male	√	√	√	√	√
3	ABDUL RAZZAQ ALI	4120563777071	Emergency Medical Technician	Male	√	√	√	√	√
4	ABDUL WAHAB	4420497911023	Emergency Medical Technician	Male	√	√	√	√	√
5	Adil javed	4230147469759	Emergency Medical Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
6	AHSANULLAH	4250195959163	Emergency Medical Technician	Male	√	√	√	√	√
7	ALEX	4230109779523	Emergency Medical Technician	Male	√	√	√	√	√
8	AMBREEN	4220114070830	Emergency Medical Technician	Female	√	√	√	√	√
9	AREEBA	4240154578734	Emergency Medical Technician	Female	√	√	√	√	√
10	AREEJ SHABBIR	1310142166226	Emergency Medical Technician	Female	√	√	√	√	√
11	Babar	4200033165667	Emergency Medical Technician	Male	√	√	√	√	√
12	FARHAT KHAN	4240122788751	Emergency Medical Technician	Male	√	√	√	√	√
13	FATIMA DIN	4210101233224	Emergency Medical Technician	Female	√	√	√	√	√
14	FIZA MAQBOOL	4220103737140	Emergency Medical Technician	Male	√	√	√	√	√
15	HASHMAT SULTAN	4220179848198	Emergency Medical Technician	Female	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
16	MALAIKA ASIF	4220195760990	Emergency Medical Technician	Female	√	√	√	√	√
17	MUHAMMAD ARIF	4240168593999	Emergency Medical Technician	Male	√	√	√	√	√
18	MUHAMMAD ASMAR KHAN	4230160117867	Emergency Medical Technician	Male	√	√	√	√	√
19	MUHAMMAD RAMZAN	4110247601293	Emergency Medical Technician	Male	√	√	√	√	√
20	MUHAMMAD WASIF	4210159584985	Emergency Medical Technician	Male	√	√	√	√	√
21	MUZAMMIL	3450268620367	Emergency Medical Technician	Male	√	√	√	√	√
22	NAFEES UR REHMAN	4240123845317	Emergency Medical Technician	Male	√	√	√	√	√
23	RAQIBULLAH	4250179951693	Emergency Medical Technician	Male	√	√	√	√	√
24	SADAM HUSSAIN	4120150954273	Emergency Medical Technician	Male	√	√	√	√	√
25	SAMRA AHMED KARIMI	4210158078226	Emergency Medical Technician	Female	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
26	SHAHZAIB KHAN	4220153039931	Emergency Medical Technician	Male	√	√	√	√	√
27	SOFIA MUHAMMAD YOUNUS	4230159280184	Emergency Medical Technician	Female	√	√	√	√	√
28	SUNIL SABIR	4230169670033	Emergency Medical Technician	Male	√	√	√	√	√
29	TOOBA SALAR	4250165815320	Emergency Medical Technician	Female	√	√	√	√	√
30	UMAIR GUL ABBASI	4210160303033	Emergency Medical Technician	Male	√	√	√	√	√

#### Lab Technician

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
1	ABDUL MALIK	4240151879469	Lab Technician	Male	√	√	√	√	√
2	AFZAL AHMED	4410903537809	Lab Technician	Male	√	√	√	√	√
3	AIMAN ZAFAR	4210141673354	Lab Technician	Female	√	√	√	√	√
4	AQIB KHAN	4240118786539	Lab Technician	Male	√	√	√	√	√
5	ARSHAD KHAN	4260403529767	Lab Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
6	BASIL NATHANIAL	4240144592583	Lab Technician	Male	√	√	√	√	√
7	DUA FATIMA	4220126680018	Lab Technician	Female	√	√	√	√	√
8	FAIZAN HYDER	4220136841699	Lab Technician	Male	√	√	√	√	√
9	FAYYAZULLAH	4250115906009	Lab Technician	Male	√	√	√	√	√
10	GHULAM HUSSAIN	4140614819627	Lab Technician	Male	√	√	√	√	√
11	GUL HASSAN CHOHAN	3710521548403	Lab Technician	Male	√	√	√	√	√
12	HAJI MUHAMMAD KHAN	4250132025481	Lab Technician	Male	√	√	√	√	√
13	HAMZA MUGHAL	4230117986913	Lab Technician	Male	√	√	√	√	√
14	HAMZA YASIR	4230101255283	Lab Technician	Male	√	√	√	√	√
15	HANIYA ANEES	4230133515554	Lab Technician	Female	√	√	√	√	√
16	HASNAIN	4230112948915	Lab Technician	Male	√	√	√	√	√
17	KAINAT	4210102993606	Lab Technician	Female	√	√	√	√	√
18	KHALILULLAH	4530341574645	Lab Technician	Male	√	√	√	√	√
19	KIRAN	4220102805686	Lab Technician	Female	√	√	√	√	√
20	MAAZ SABIR	1310187076401	Lab Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
21	MADIHA	4230193292182	Lab Technician	Male	√	√	√	√	√
22	MANSHA WASEEM	4220137372808	Lab Technician	Female	√	√	√	√	√
23	MANZOOR ALI	4420401114149	Lab Technician	Male	√	√	√	√	√
24	MARIA AIMUN	4230166361288	Lab Technician	Female	√	√	√	√	√
25	MEHAK	4230196298538	Lab Technician	Female	√	√	√	√	√
26	MUDASIR AALIM	4530291866001	Lab Technician	Male	√	√	√	√	√
27	MUHAMMAD ADNAN KHAN	4250184158517	Lab Technician	Male	√	√	√	√	√
28	MUHAMMAD BILAL	4230149211613	Lab Technician	Male	√	√	√	√	√
29	MUHAMMAD GHOUS	4220120808049	Lab Technician	Male	√	√	√	√	√
30	MUHAMMAD HASNAIN	4240133622671	Lab Technician	Male	√	√	√	√	√
31	MUHAMMAD MUZAMMIL HUSSAIN	4220181805301	Lab Technician	Male	√	√	√	√	√
32	MUHAMMAD SALEEM	4220169395403	Lab Technician	Male	√	√	√	√	√
33	MUHAMMAD SHAYAN RAMZAN	4220128192993	Lab Technician	Male	√	√	√	√	√
34	MUHAMMAD TASEEN KHAN	4240158671469	Lab Technician	Male	√	√	√	√	√
35	MUSKAN SHAKIL	4220148446190	Lab Technician	Female	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
36	NIMRA	4540135255240	Lab Technician	Female	√	√	√	√	√
37	NOOR WAHAB	4250128901981	Lab Technician	Male	√	√	√	√	√
38	PARVEEN	4220120966206	Lab Technician	Female	√	√	√	√	√
39	RASOOL BUX	4230199328861	Lab Technician	Male	√	√	√	√	√
40	RAZIA GULAB	4220166910908	Lab Technician	Female	√	√	√	√	√
41	SABA	4220184875092	Lab Technician	Female	√	√	√	√	√
42	SAGAR	4180106949337	Lab Technician	Male	√	√	√	√	√
43	SAJJAD HUSSAIN	4420453654547	Lab Technician	Male	√	√	√	√	√
44	SARDAR	4430337225937	Lab Technician	Male	√	√	√	√	√
45	SAWERA	4230121655100	Lab Technician	Female	√	√	√	√	√
46	SIMRA	4220170376218	Lab Technician	Male	√	√	√	√	√
47	ZEESHAN RASHEED	4530103788057	Lab Technician	Male	√	√	√	√	√

### Ophthalmic Technician

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
1	ABDUL SALAM	4150604525947	Ophthalmic Technician	Male	√	√	√	√	√
2	ALIZA	3650194702998	Ophthalmic Technician	Female	√	√	√	√	√
3	AMBER ALI	4230192045208	Ophthalmic Technician	Female	√	√	√	√	√
4	AMREEN JOKHIO	4250133664938	Ophthalmic Technician	Female	√	√	√	√	√
5	DANISH	4250145982115	Ophthalmic Technician	Male	√	√	√	√	√
6	ERUM	4230152549598	Ophthalmic Technician	Female	√	√	√	√	√
7	FAIZA JAMEEL	4230170316804	Ophthalmic Technician	Female	√	√	√	√	√
8	FARWA SAHITO	4240185585570	Ophthalmic Technician	Male	√	√	√	√	√
9	FAZEELA	4120323857822	Ophthalmic Technician	Female	√	√	√	√	√
10	FAZEELA	4520603214328	Ophthalmic Technician	Female	√	√	√	√	√
11	JUNAID AHMED	4330469956243	Ophthalmic Technician	Male	√	√	√	√	√
12	KALEEMULLAH	4410903847033	Ophthalmic Technician	Male	√	√	√	√	√
13	KASHIFA RAFIQ AHMED	4230128932612	Ophthalmic Technician	Female	√	√	√	√	√
14	KINZA FARMAN	4230128620100	Ophthalmic Technician	Female	√	√	√	√	√
15	MAHESH KUMAR	4310242118673	Ophthalmic Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
16	MARIUM	4230119483142	Ophthalmic Technician	Female	√	√	√	√	√
17	MITHU	4430157922311	Ophthalmic Technician	Male	√	√	√	√	√
18	MUHAMMAD	4250173827693	Ophthalmic Technician	Male	√	√	√	√	√
19	MUHAMMAD NAIMATULLAH	4330465324245	Ophthalmic Technician	Male	√	√	√	√	√
20	MUHAMMAD NASIR	4230187744445	Ophthalmic Technician	Male	√	√	√	√	√
21	MUHAMMAD NASIR JAN	4220149540581	Ophthalmic Technician	Male	√	√	√	√	√
22	MUHAMMAD SHAKEEL	4200009998979	Ophthalmic Technician	Male	√	√	√	√	√
23	NIMRA	4220124750842	Ophthalmic Technician	Female	√	√	√	√	√
24	NISAR ALI	4150604592133	Ophthalmic Technician	Male	√	√	√	√	√
25	RAMZAN	4430126976301	Ophthalmic Technician	Male	√	√	√	√	√
26	RASHID ALI	4530123383227	Ophthalmic Technician	Male	√	√	√	√	√
27	SAMUEL	4230192025251	Ophthalmic Technician	Male	√	√	√	√	√
28	SAWERA	4310569120572	Ophthalmic Technician	Female	√	√	√	√	√
29	SYED ARSALAN	4220117252517	Ophthalmic Technician	Male	√	√	√	√	√
30	SYED HASSAN BIN IMRAN	4240124394297	Ophthalmic Technician	Male	√	√	√	√	√

### OT Technician

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
1	ABDUL LATIF	4420449937153	OT Technician	Male	√	√	√	√	√
2	ABDUL RAUF	4250105925201	OT Technician	Male	√	√	√	√	√
3	AISHA	4120176643636	OT Technician	Female	√	√	√	√	√
4	ALI ALYAN SOOMRO	4230192005867	OT Technician	Male	√	√	√	√	√
5	ALINA KHAN	4220195810500	OT Technician	Female	√	√	√	√	√
6	ANUM SHAHZADI	4240184724626	OT Technician	Female	√	√	√	√	√
7	ASIF KHAN	4210114762175	OT Technician	Male	√	√	√	√	√
8	ASMA ILIYAS	4220115880494	OT Technician	Male	√	√	√	√	√
9	AUGUB GUL DIN	4430170693113	OT Technician	Male	√	√	√	√	√
10	AZAN AHMED	4220137120231	OT Technician	Male	√	√	√	√	√
11	EVEREST	4220162876511	OT Technician	Male	√	√	√	√	√
12	HAFEEZ UR REHMAN	4240146816015	OT Technician	Male	√	√	√	√	√
13	IRFAN ALI	4420666040769	OT Technician	Male	√	√	√	√	√
14	JUSTIN	4230143182679	OT Technician	Male	√	√	√	√	√
15	MARIAM AAMIR	4210146493550	OT Technician	Female	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
16	MITHU	4430333980183	OT Technician	Male	√	√	√	√	√
17	MUHAMMAD DURAIZ KHAN	4220184978079	OT Technician	Male	√	√	√	√	√
18	MUHAMMAD UMAR	4250127728885	OT Technician	Male	√	√	√	√	√
19	SEHRISH JAVED	6110143861212	OT Technician	Female	√	√	√	√	√
20	SHAHID ALI	4420605190369	OT Technician	Male	√	√	√	√	√
21	SOHAIL	4520616632311	OT Technician	Male	√	√	√	√	√
22	SYED MUHAMMAD IBAD	4220173236477	OT Technician	Male	√	√	√	√	√
23	TANVEER FATIME	4520876789186	OT Technician	Female	√	√	√	√	√
24	TARIQ ALI	4540133054893	OT Technician	Male	√	√	√	√	√
25	TOUFIQUE BATOOL	4520840323180	OT Technician	Female	√	√	√	√	√
26	UBAID UR REHMAN	4230197150787	OT Technician	Male	√	√	√	√	√
27	UROOBA KHAN	4220182620192	OT Technician	Female	√	√	√	√	√
28	VISHAL	4410385557069	OT Technician	Male	√	√	√	√	√
29	ZAMEER AHMED	4310583107659	OT Technician	Male	√	√	√	√	√
30	ZARISH	3460397282770	OT Technician	Female	√	√	√	√	√

### X-Ray Technician

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
1	ABDUL NAEEM	4550114670201	X-Ray Technician	Male	√	√	√	√	√
2	AFAN ALI	4530359186873	X-Ray Technician	Male	√	√	√	√	√
3	ANSA RASHID	4530214075024	X-Ray Technician	Female	√	√	√	√	√
4	ASBAB ALI	4350204264645	X-Ray Technician	Male	√	√	√	√	√
5	ASIF ALI	4530105748235	X-Ray Technician	Male	√	√	√	√	√
6	AYESHA SULTAN	4210102927330	X-Ray Technician	Female	√	√	√	√	√
7	BADARUDDIN	4120303406785	X-Ray Technician	Male	√	√	√	√	√
8	DEVI LAL	4430298715871	X-Ray Technician	Male	√	√	√	√	√
9	FARHA ASLAM	4180306084442	X-Ray Technician	Female	√	√	√	√	√
10	HASEEB AHMED	4530121939667	X-Ray Technician	Male	√	√	√	√	√
11	ISHTIAQ HUSSAIN	4250128041825	X-Ray Technician	Male	√	√	√	√	√
12	KOMAL SIRAJ	4220125117526	X-Ray Technician	Male	√	√	√	√	√
13	MAHJABEEN	4120158951128	X-Ray Technician	Female	√	√	√	√	√
14	MAJID	4220137513281	X-Ray Technician	Male	√	√	√	√	√
15	MANSOOR ALI	4520693779589	X-Ray Technician	Male	√	√	√	√	√

S#	Name	CNIC	Trade	Gender	Validation of Tutors	Validation of Curriculum	Validation of Training Delivery	Validation of Training Completion	Validation of Certification
16	MEHTAB ALI	4420444152563	X-Ray Technician	Male	√	√	√	√	√
17	MOHSIN HUSSAIN KHAN	4220156692433	X-Ray Technician	Male	√	√	√	√	√
18	MUHAMMAD SHAFFAN QURESHI	4200097538785	X-Ray Technician	Male	√	√	√	√	√
19	MUHAMMAD YOUSIF	4140520441285	X-Ray Technician	Male	√	√	√	√	√
20	MUHAMMAD ZOHAIB	4220138842349	X-Ray Technician	Male	√	√	√	√	√
21	MUMTAZ ALI	4230130922423	X-Ray Technician	Male	√	√	√	√	√
22	NADIR ALI	4530498671907	X-Ray Technician	Male	√	√	√	√	√
23	RAHAM ALI	4530314299921	X-Ray Technician	Male	√	√	√	√	√
24	SAIMA NOOR	4240125111550	X-Ray Technician	Male	√	√	√	√	√
25	SAJAN	4180106552169	X-Ray Technician	Male	√	√	√	√	√
26	SUFYAN BAIG	4220183126731	X-Ray Technician	Male	√	√	√	√	√
27	SYED ROHAIL ALI	4230141423241	X-Ray Technician	Male	√	√	√	√	√
28	UMAR GULZAR	4230194291099	X-Ray Technician	Male	√	√	√	√	√
29	ZUBAIR AHMED	4550121699495	X-Ray Technician	Male	√	√	√	√	√

## CONCLUSION AND RECOMMENDATIONS

- The trainers recommended that such type of courses should be organized throughout the year so that the School of Paramedics, JPMC, can announce the courses with the academic year. As School of Paramedics, JPMC has campuses in Karachi so such trainings need to be organized also in other cities.
- Due to the strict admission policies and the merit, many of the students could not get admission in graduation programs at the School of Paramedics, JPMC Therefore, such courses should be expanded more to utilize the School of Paramedics, JPMC expertise, to organize the course at the large-scale level throughout the districts of Sindh province.
- The contents of trainings were prepared and shared with the BBSHRRDB before the commencement of trainings so these specialized contents should be used by the other training institute as well.
- The School of Paramedics, JPMC is a good platform for the BBSHRRDB to use for the specialized training in various employable and job-oriented trades.
- There were many trainees who belonged to other cities and were facing difficulty to attend the courses on daily basis. So the need cum merit based scholarships should also be provided to support to them
- During telephonic content or a physical interview, none of the students were discovered to be fictitious. This demonstrates that the real and actual trainees have received the appropriate training.