



Implemented by



Funding Programme



In cooperation with

TECH mahindra Executed by

TECH malnindra FOUNDATION



Tech Mahindra in collaboration with GIZ under the ASCENT Project (Alliance for Skill and Capacity Enhancement with Technology) supports quality vocational training amongst youth in India. The project ASCENT focus on enhancing the employability of India's youth in the allied sectors of Healthcare, Logistics and Digital Technologies and contributing to a Sustainable Vocational Education Training (VET) ecosystem in India.



Diploma in Medical Laboratory Technology



The Medical Lab Technician (MLT) course includes elements of blood bank management, materials management, supply chain management as well as lab information system management. Additionally, students from this course are trained to clean and maintain lab equipment, manage biomedical waste and adhere to quality control standards as per the NABL regulations.

The course curriculum covers the following topics:

- (Introduction to Patient Care, Lab Technology & Equipment
- () Basic Pathology & Diagnostic Techniques
- Basic & Clinical Biochemistry
- Basic & Systemic Medical Microbiology
- () General Pharmacology
- Basic Haematology, Immunology, Parasitology and Histology
- Blood Banking
- () Storage & Transportation of Samples
- Fine Needle Aspiration Technique
- Lab Information Management System
- Preparation and Documentation of Medical Tests & Results
- Biomedical Waste Management
- Infection Control
- Materials Management & Supply Chain Management
- Maintenance and Cleaning of Lab Equipment
- NABL Training & Quality Control

COURSE OVERVIEW

- ▶ Eligibility Class 12 (Science)
- Minimum Age 17 Years
- Duration 2 Years

CERTIFICATION

Diploma jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- Indian Medical Association (IMA)
- On-the-job Training Partner

FACILITIES

- Basic skills lab with phlebotomy dummy, sterilisation station & an autoclave
- Advanced medical lab equipped with sample collection stations, microscopes, centrifuges etc

TRAINING & PLACEMENT



Diploma in Medical Record Technology



The Medical Record Technician course trains students to handle medical case sheets and records in a scientific manner. They are taught how to prepare a file for storage after checking it for completeness. They are also trained in filing reports as required by the local health and governmental authorities as laid down in the country.

The course curriculum covers the following topics:

- Anatomy
- Medical Record Science
- Medical Terminology
- ► Hospital Information Systems
- Biostatistics
- (International Classification of Diseases (ICD10) Coding
- Medical Transcription
- (Legal and Ethical Aspects of Medical Records
- () Computer Applications to Maintain Medical Records

COURSE OVERVIEW

- ▶ Eligibility Class 12
- (Minimum Age 17 Years
- Duration 2 Years

CERTIFICATION

Diploma jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- Indian Medical Association (IMA)
- On-the-job Training Partner

FACILITIES

- Fully equipped computer lab with ICD-10 coding software
- Language lab to facilitate better accent comprehension for medical transcription

TRAINING & PLACEMENT



Diploma in X-ray & Imaging Technology



The X-ray & Imaging Technology course trains students to work as radiology technicians in radiology departments and clinics. After undergoing a basic training in human anatomy and physiology, they are taught to handle X-ray equipment, develop X-ray films using both wet development and the computerised X-ray machines, CT Scan, MRI and ultra sound sonography.

The course curriculum covers the following topics:

- Introduction to Imaging Technologies
- (Basic Anatomy, Physiology and Pathology
- Radiographic Imaging Material and Equipment
- ▶ Radiological Physics
- Basic Concepts and Production of X-ray
- () Hospital Practice and Care of Patients
- Positioning of the Patient
- () Radiographic Photography and Dark-room Technique
- (Magnetic Resonance Imaging
- () Computerised Tomography
- () Special Procedures and the use of Contrast Media
- () Safety Procedures and Patient Care
- (Radiation Protection

COURSE OVERVIEW

- Eligibility Class 12 (Science)
- (Minimum Age 17 Years
- Duration 2 Years

CERTIFICATION

Diploma jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- Indian Medical Association (IMA)
- On-the-job Training Partner

FACILITIES

- Basic skills lab that emulates a hospital ward, with dummies
- Access to fully-fledged CT Scan, MRI, sonography diagnostic centre through a partner hospital
- X-ray lab with a dark room for wet development and a computer room for digital reports

TRAINING & PLACEMENT



Diploma in Dialysis Technician



The Dialysis Technician course trains students to become skilled dialysis technicians, capable of handling haemodialysis and peritoneal dialysis on both Fresinius and B Braun dialysis machines. The course also includes training on the preparation of dialysis fluids, as well as the washing and storage of dialyzers for reuse. Our training includes running safety checks for the machine settings, particularly the pressures, conductivity, and temperature.

The course curriculum covers the following topics:

- Basic Anatomy, Physiology and Pathology
- Basic & Clinical Biochemistry
- ▶ Basic & Systemic Microbiology
- General Pharmacology
- (Renal Anatomy & Physiology
- () Common Kidney Disorders, Diagnosis of Kidney Disease
- Management of Kidney Disease
- Predialysis Preparation and Assessment
- Peritoneal Dialysis & Haemodialysis
- Vascular Access
- Renal Nutrition
- Heparin Therapy
- () Complications Arising from Haemodialysis
- ▶ Haemodialysis Prescriptions
- Water Treatment Methods

and more...

COURSE OVERVIEW

- Eligibility Class 12 (Science)
- Minimum Age 17 Years
- Duration 2 Years

CERTIFICATION

Diploma jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- (IMA) Indian Medical Association (IMA)
- On-the-job Training Partner

FACILITIES

- Basic skills lab with an autoclave & sterilisation station
- Fully functional dialysis lab with Fresinius & B Braun Dialysis machines

TRAINING & PLACEMENT



Diploma in Operation Theatre Technician



The Operation Theatre Technician course trains students to maintain and prepare an operation theatre for surgery. They are trained in setting up the theatre and instrument trolleys for specific surgeries which includes positioning the operation table and patient, and thereafter assisting a surgeon during surgery. They are also trained in autoclaving and sterile supplies required for use in the theatre.

The course curriculum covers the following topics:

- Anatomy
- Physiology
- Pathology
- ▶ General Pharmacology
- () General Surgery
- Anaesthesia
- Paediatric Care
- () Operative Care
- Operation Theatre Setup
- Equipment Care and Maintenance
- Operation Theatre Care
- Positioning and Assistance for Operation Theatre Procedures
- (Basic Nursing Skills and Critical Care
- () Medicolegal Aspects of Anaesthesia
- Patient Rights and Consent, Medical Ethics

COURSE OVERVIEW

- Eligibility Class 12 (Science)
- Minimum Age 17 Years
- Duration 2 Years

CERTIFICATION

Diploma jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- (IMA) Indian Medical Association
- On-the-job Training Partner

FACILITIES

- Basic skills lab with dummies for injections, CPR, tube feeding, catheter, sterilisation station & an autoclave
- Operation theatre lab fully equipped with an operation theatre table and attachments

TRAINING & PLACEMENT



Diploma in Cardiac Technology



The Cardiac Technology course has been designed to bridge the gap in critical care practice and develop technicians skilled in the management of critical life-supporting equipment with a focus on the care of seriously ill patients. The course has been designed to train students to conduct ECG and other highly technical cardiology diagnostic equipment including cathlabs, handle complex ICU equipment like ventilators, defibrillators, pacemaker implants etc.

The course curriculum covers the following topics:

- (Introduction to Cardiac Care Technology
- () Echocardiography & Treadmill Test (TMT)
- (Ventilators and Ventilatory Support
- Hospital Organisation and Functioning
- Introduction to Cath Lab Procedures and Pacemakers
- Care and Monitoring of Unconscious and Critical Patients
- Basic Anatomy and Physiology
- Introduction to Critical Care
- ▶ Infection Control Practices
- Basic Pharmacology related to Cardiac and Critical Care
- Types of Critical Care Units and Departments
- (Biomedical Waste Management
- (Electrocardiography ECG

COURSE OVERVIEW

- Eligibility Class 12 (Science)
- (Minimum Age 17 Years
- Duration 2 Years

CERTIFICATION

Diploma jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- (IMA) Indian Medical Association (IMA)
- On-the-job Training Partner

FACILITIES

- Operation Theatre Lab, Basic Skills Lab, Advanced Life Saving Ambulance
- IT lab, English training & soft skills training

TRAINING & PLACEMENT



Certificate in **Emergency Care Assistant**



The Emergency Care Assistant Course students to handle emergency situations like road accidents, medical emergencies at home and at remote areas. The technicians are taught to administer expert care in a pre-hospital care situation, followed by evacuation to an appropriate health facility. They can be deployed in ambulances, emergency rooms, public health departments or areas, clinics etc.

The course curriculum covers the following topics:

- Respond to Emergency Calls
- () Size up the Scene at the Site
- Follow Evidence based Protocol while Managing Patients
- Assess Patient at the Site
- Patient Triage based on the defined Clinical Criteria of Severity of Illness
- Manage Cardiovascular Emergency, Cerebrovascular Emergency
- Manage Patients with Allergic Reaction, Poisoning or Medicinal Overdose
- () Manage Obstetrics/Gynaecology Emergencies
- Manage Bleeding, Shock, Musculoskeletal Injuries, Burns, Injuries to Head and Spine
- Manage Infants, Neonates and Children
- Collate and Communicate Health Information
- Handle Patients with Respiratory Emergency, Severe Abdominal Pain and Diabetes

COURSE OVERVIEW

- ▶ Eligibility Class 12
- Minimum Age 18 Years
- Duration 12 Months

CERTIFICATION

Certificate jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- (Healthcare Sector Skill Council (HSSC)
- () On-the-job Training Partner

FACILITIES

- Basic skills lab with dummies for injections, CPR, tube feeding, catheter, sterilisation station & an autoclave
- Advanced life support training ambulance

TRAINING & PLACEMENT



Certificate in Vision & Ophthalmic Assistant



The Vision & Ophthalmic Assistant course is aimed at skilling individuals as an eye specialist's clinical assistant in an optometrist outlet and spectacle manufacturing units. The course will impart training to assist an eye specialist in a clinic, conducting visual acuity tests, preparation and repair of spectacles.

The course curriculum covers the following topics:

- Structure of the Human Eye
- Assist Eye Specialist in the Examination of Patients
- () Consent, Observing, Reporting and Documentation
- (Roles and Responsibilities of a Vision Technician
- Dispensing Optical Prescription & Spectacle Lens Accurately
- ▶ Basic Life Support
- () Obtaining the Case History of Patients
- Grinding and Making of Spectacles
- Counselling and Patient Rights
- () Common Eye Problems and Infections
- Follow the Biomedical Waste Disposal Protocol
- (Vision Assessment of Eye Hospital-based Patient
- Follow the Infection Control Policies & Procedures

COURSE OVERVIEW

- Eligibility Class 12 (Science)
- (Minimum Age 18 Years
- Duration 12 Months

CERTIFICATION

Certificate jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- Indian Medical Association (IMA)
- On-the-job Training Partner

FACILITIES

- Fully equipped Optometry Lab
- Basic Skills Lab
- () IT lab, English training & soft skills training

TRAINING & PLACEMENT



Post-Graduate Certificate in Hospital Front Office & Billing Executive



The Post-Graduate Certificate Course in Hospital Front Office & Billing Executive course has been designed to cater for the growing need for trained billing executives in healthcare facilities. They are trained to recognise medical terminologies, abbreviations and diagnoses. They are also trained to work on hospital information systems for real time online billing and hospital operation work.

The course curriculum covers the following topics:

- Organisation of a Hospital and its Departments
- () Medical Terminologies & Abbreviations
- Basic Human Anatomy & Physiology
- Procedures Carried out by Different Departments
- () Hands-on Training on HIS
- () Handling of Cash Paying Patients
- () Handling of Medical Insurance Holders
- () Handling of Patients referred by CGHS & ECHS Clinics
- (Process Flow of a Patient
- () OPD Billing Flow
- ▶ IPD Billing Flow
- () Handling Stress & Difficult Situations

COURSE OVERVIEW

- Eligibility Pursuing last year of Graduation
- Minimum Age 18 Years
- Duration 6 Months

CERTIFICATION

Certificate jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- On-the-job Training Partner

FACILITIES

- Fully equipped computer lab with ICD-10 coding software
- Language lab to facilitate better accent comprehension for medical transcription

TRAINING & PLACEMENT



Certificate in General Duty Assistant



The General Duty Assistant (GDA) course trains students to work as nursing aides in hospitals and home care scenarios and they can also provide basic nursing care. They are taught to support nurses and also directly handle ill patients who are unable to look after themselves in both hospital and home care settings.

The course curriculum covers the following topics:

- Basic Human Anatomy & Physiology
- () General Health & Hygiene
- Understanding Hospitals & the Healthcare System
- () Special Skin Care for Radiotherapy & Pressure Sores
- () Caring for the Visually Impaired
- Role of a Patient Care Assistant
- ▶ Basic Nursing Skills
- () Administering Drugs as per Prescriptions
- Disposal of Medical Waste
- Daily Care of a Patient
- ▶ Understanding Body Mechanics
- Patient Handling, Lifting & Transferring
- Fall Prevention Care & Restraints
- ▶ Emergency First Aid & CPR

COURSE OVERVIEW

- ▶ Eligibility Class 8
- Minimum Age 18 Years
- Duration 6 Months

CERTIFICATION

Certificate jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- ▶ Healthcare Sector Skill Council (HSSC)
- On-the-job Training Partner

FACILITIES

- Basic skills lab with dummies for injections, CPR, tube feeding, catheter sterilisation station & an autoclave
- IT lab, English training and soft skill training

TRAINING & PLACEMENT



Phlebotomy Technician



The Phlebotomy Technician course is designed to prepare health care professionals to draw quality blood samples from patients and prepare specimens for medical testing. A Phlebotomy Technician is an expert in the techniques involved in minimising pain and discomfort during the procedure of extracting blood.

The course curriculum covers the following topics:

- Introduction to Healthcare in India
- Basic Structure and Functioning of the Human Body
- () Medical Terminology and Abbreviations
- Introduction to Medical Laboratory Technology
- ▶ Introduction to Microbiology
- (Introduction to Biochemistry
- () Collection of Blood for Various Tests
- () Collection of other Samples for Analysis
- (Laboratory Safety and Standard Precautions
- Preparation of Blood Smears
- Storage of Different Samples
- Sample Transportation
- ▶ Laboratory Information System
- Infection Control
- ▶ Biomedical Waste Disposal

COURSE OVERVIEW

- Eligibility* Class 12 (Science)
- (Minimum Age 18 Years
- Duration 6 Months

CERTIFICATION

Certificate jointly issued by

- Tech Mahindra SMART Academy for Healthcare
- Healthcare Sector Skill Council (HSSC)
- On-the-job Training Partner

FACILITIES

- Basic skills lab with mannequins for injections,
 CPR, tube feeding, catheter, sterilisation station
 & an autoclave
- Fully equipped Pathology Lab

TRAINING & PLACEMENT



Certificate in Medical Sales Representative



The Medical Sales Representative course will train aspirants to implement different strategies to build awareness of medical supplies and employer companies. As a part of the course, students will also be trained to interpret current physician referral patterns, trends, and financial margins.

The course curriculum covers the following topics:

- Introduction to Indian Pharmaceutical & Healthcare Industry
- (Pharmaceutical Marketing
- Understand the role of MSR and Regulation of MSR in the Pharma Industry
- Introduction to Pre-sales Activities
- Role of MSR in the Healthcare Service Sector
- Market Research and Analysis and Retail Hemist Prescription Audit
- Pharma & Healthcare Service Sales
- Major Stakeholders and Sale & Distribution System in Pharma & Biopharma
- Drug Safety Reporting Introduction to Pharmacovigilance
- Anatomy & Physiology
- Organizing Medical Events and Conference
- Fundamentals of Pharmacology
- Day to day Activities and Job Roles
- Disease Pathology & Management

COURSE OVERVIEW

- ▶ Eligibility Class 12 (Science)/D Pharma
- Minimum Age 18 Years
- Duration 4 Months(Including 1 month On-the-job training)

CERTIFICATION

Certificate issued by

Tech Mahindra SMART Academy for Healthcare

FACILITIES

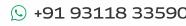
Smart Classrooms and IT Lab

TRAINING & PLACEMENT

- Mandatory 1 month On-the-job training/internship
- (Placement Assistance



Certificate in Hospital Hygiene Assistant





The Hospital Hygiene Assistant Course has been designed to train youth for hospital hygiene, sanitation and infection control practices. This training will help the student to minimize the hospital related infection, and support or aide to nursing and paramedical staff working in the Hospitals.

The course curriculum covers the following topics:

- (Biomedical Waste Management
- Personal Hygiene
- () Cleaning Procedures & Protocols for Hospital Set Up
- (Hospital Housekeeping Equipment Handing
- Disinfectants and their Correct Usage & Tools for Cleaning
- Decantation of the Medical Device like Urine Bag, Bedpan, Diapers etc.
- Body Mechanics related to Patient Shifting with Stretcher, Wheelchair & Movable Beds
- () Cleanliness and Basic Principles of Sanitation
- Patient Safety
- () Hospital Infection Control Practices
- Setting up the Attendants Trolley with Appropriate Linen and Supplies

COURSE OVERVIEW

- ▶ Eligibility Class 8
- (Minimum Age 18 Years
- Duration 15 Days

CERTIFICATION

Certificate issued by

- Tech Mahindra SMART Academy for Healthcare
- ► Healthcare Sector Skill Council (HSSC)

TRAINING & PLACEMENT

15 days Training includes online classes& on the job training

INFRASTRUCTURE & RESOURCES



DIALYSIS LAB



X-RAY LAB



BASIC SKILLS LAB



OPERATION THEATRE LAB



ADVANCED LIFE SUPPORT
AMBULANCE



COMPUTER LAB



LIBRARY



MODERN CLASSROOMS

SALIENT FEATURES

- World-class Infrastructure
- Personalised Classroom Training
- Exposure to Community Health Projects
- On-the-job Training & Placement Assistance
- Industry-accepted Curriculum
- Expert Faculty
- ▶ Best-in-class Study Material
- English Speaking, Personality Development, Soft Skills and IT Training

TRAINING AFFILIATES & PARTNERS



Jamia Hamdard University



Indian Medical Association



Healthcare Sector Skill Council



Maharashtra State Board of Skill Development



Life Sciences Sector Skill Development Council



About Tech Mahindra Foundation

Tech Mahindra Foundation (TMF) is the corporate social responsibility arm of Tech Mahindra Limited, a Mahindra Group Company. Since 2006, the Foundation has been working tirelessly in the areas of education, employability, and disability, with a keen focus on corporate volunteering.

The Foundation works with the mandate that 50% & 10% of its beneficiaries would respectively be women and persons with disabilities. Since 2012-2013, the organization has impacted 3,94,727 direct beneficiaries across all programs. Additionally, the lives of 4+ million indirect beneficiaries have been impacted through the initiatives across 17 states in India.

Our Focus Areas

EMPLOYABILITY

SMART (Skills-for-Market Training) is the Foundation's flagship employability program to empower youth from socio-economically backward urban communities. It empowers youth from under-served urban communities with requisite employability skills through structured training and helps them get dignified jobs. The program includes imparting Foundation Skills i.e. Spoken English, Basic IT and Workplace Readiness besides trade-specific domain training. The Foundation has been implementing the **SMART** program by establishing a network of SMART Academies and Centres run both directly and through other partner implementing agencies.

EDUCATION

The Foundation is dedicated to enhancing school governance, expanding children's learning opportunities, increasing parental involvement in school education and enabling continuous professional development of schools' stakeholders.. This is executed through our Education programs- **ARISE**, **Shikshaantar** and **Mobile Science Lab**. The Foundation works in government schools through its ARISE (All-Round Improvement in School Education) focuses on providing holistic development for children in government schools. Shikshaantar focuses on teacher empowerment and capacity enhancement through contemporary subject matter and pedagogical practice through directly run In-Service Teacher Education Institute (ITEI) and partner projects. The Mobile Science Labs were launched to enhance the educational experience through a bus equipped with hands-on activities of EVS (Science) that visits government schools and facilitates learning of students from Classes 3 to 5.

DISABILITY

Enabling true ability in persons with disability, Tech Mahindra Foundation strives to build an inclusive society. There is a keen emphasis on facilitating equal learning opportunities for children and youth with disabilities to lead dignified lives. This is done through **ARISE+** (All Round Improvement in School Education for Children with Disabilities) and **SMART+** (Skills-for-Market Training for Persons with Disabilities). ARISE+ is a program that encourages children with disabilities to become a part of mainstream education. The SMART+ program focuses on providing employable market-related entrepreneurial skills and opportunities to youth with disabilities.

VOLUNTEERING

Corporate Volunteering is at the heart of Tech Mahindra's ethos where Individual Social Responsibilities (ISR) is a way of life. TechM associates volunteer and contribute to driving positive social change while simultaneously enhancing their capacities for empathy and compassion. This is how we #Rise and find our joy in giving back to society!

TECH mahindra **FOUNDATION**

NEW DELHI

 Harijan Sevak Sangh, Gandhi Ashram, Kingsway Camp New Delhi - 110009

MOHALI

Quest Group of institutions, Landran-Sirhind Highway
 Jhanjeri, Sahibzada Ajit Singh Nagar, Punjab 140307

MUMBAI

 Auxilium Convent School, 6 Pali Hill, Rajendra Chowk Bandra (W), Mumbai - 400050 Maharashtra

PUNE

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