



# CREATING SKILLED ALLIED HEALTHCARE PROFESSIONALS



# ASCENT

Alliance for Skill & Capacity Enhancement with Technology

*A collaboration to drive excellence in quality vocational training and enhance employability in India*



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

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☎ 1800 270 2022 (Toll Free) | 📞 +91 93118 33590 | 🌐 [www.smart-academy.in](http://www.smart-academy.in)



## COURSE DETAILS

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

- ▶ Mandatory 6 months long supervised on-the-job training





## Diploma in Medical Record Technology

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## COURSE DETAILS

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 (Any Stream)
- ▶ 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

- ▶ Mandatory 6 months long supervised on-the-job training





## Diploma in Dialysis Technician

☎ 1800 270 2022 (Toll Free) | 📞 +91 93118 33590 | 🌐 [www.smart-academy.in](http://www.smart-academy.in)



## COURSE DETAILS

The Dialysis Technician course trains students to become skilled dialysis technicians, capable of handling haemodialysis and peritoneal dialysis on both Fresenius 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 (Any Stream)
- ▶ 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 an autoclave & sterilisation station
- ▶ Fully functional dialysis lab with Fresenius & B Braun Dialysis machines

## TRAINING & PLACEMENT

- ▶ Mandatory 6 months long supervised on-the-job training



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## Diploma in Operation Theatre Technician

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## COURSE DETAILS

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
- ▶ Indian Medical Association (IMA)
- ▶ 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

- ▶ Mandatory 6 months long supervised on-the-job training



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## Certificate in Emergency Care Assistant

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## COURSE DETAILS

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 (Any Stream)
- ▶ 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



- ▶ Mandatory 4 months long supervised on-the-job training





## Post-Graduate Certificate in Hospital Front Office & Billing Executive

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## COURSE DETAILS

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 - Any graduate/ pursuing last year 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

- ▶ Mandatory 2 months long supervised on-the-job training





## Certificate in General Duty Assistant

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## COURSE DETAILS

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 10
- ▶ 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

- ▶ Mandatory 3 months long supervised on-the-job training





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## Certificate in Phlebotomy Technician

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## COURSE DETAILS

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

- ▶ Mandatory 2 months long supervised on-the-job training





## Certificate in Home Health Aide (HHA)

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## COURSE DETAILS

The Home Health Aide (HHA) course trains students to work as home aides providing basic nursing & personal care for patients, elderly people and people with disabilities. Besides, HHAs are also trained to support nurses and other healthcare professionals. The HHA training lays emphasis on ensuring that the comfort and safety of the patient are kept in mind at all times.

The course curriculum covers the following topics:

- ▶ Basic Human Anatomy & Physiology
- ▶ Understanding a Patient's Needs
- ▶ Caring for the Visually Impaired
- ▶ Introduction to Medical Laboratory Technology
- ▶ Daily Care of a Patient
- ▶ Introduction to Biochemistry
- ▶ Feeding a Patient
- ▶ Basic Nursing Skills
- ▶ Understanding Body Mechanics
- ▶ Preparation of Blood Smears
- ▶ Fall Prevention Care and Restraints
- ▶ Communication with Patients and their Careers
- ▶ General Health & Hygiene
- ▶ Special Skin Care for Pressure Sores

and more...

## COURSE OVERVIEW

- ▶ Eligibility - Class 8
- ▶ Minimum Age - 20 Years
- ▶ Duration - 4 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
- ▶ Expert Healthcare Trainers

## TRAINING & PLACEMENT

- ▶ Mandatory 1 month long supervised on-the-job training





## Certificate in Medical Sales Representative

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## COURSE DETAILS

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 - 12<sup>th</sup> (Science), D-Pharma or any graduate
- ▶ 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



## 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<sup>1</sup> direct beneficiaries across all programs. Additionally, the lives of 4<sup>+</sup> million indirect beneficiaries have been impacted through the initiatives across 17 states in India.

<sup>1</sup>As on 31 March 2023

## 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!



## 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

- 📍 Eusebia Welfare Centre, Sr No 93/92/2+3, Mundhwa  
Road Mundhwa, Pune - 411036 Maharashtra

## NAVI MUMBAI

- 📍 Prem Dan Social Service Center, Plot No. 5 Sector-5,  
Kharghar, Navi Mumbai - 410210 Maharashtra

✉ [academy@techmahindrafoundation.org](mailto:academy@techmahindrafoundation.org) [🌐 \[academy.in\]\(http://academy.in\)](http://www.smart-</a></p></div><div data-bbox=)

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**FOUNDATION**

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

- 📍 Registered Office: Oberoi Gardens Estate, Chandivali  
Off Saki Vihar Road, Andheri (East), Mumbai - 400072

🌐 [www.techmahindrafoundation.org](http://www.techmahindrafoundation.org)

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