


CREATING WORLD CLASS HEALTHCARE PROFESSIONALS

**Tech
Mahindra** 
SMART
ACADEMY FOR HEALTHCARE
A Tech Mahindra Foundation Initiative

INFRASTRUCTURE & RESOURCES



DIALYSIS LAB



X-RAY LAB



BASIC SKILLS LAB



OPERATION THEATRE LAB



**ADVANCE LIFE SUPPORT
AMBULANCE**



COMPUTER LAB



EXPERIENCED FACULTY



LIBRARY



MODERN CLASSROOMS

E: academy@techmahindrafoundation.org, W: www.smart-academy.in

TRAINING AFFILIATES & PARTNERS



National Scheduled Castes Finance
and Development Corporation



Indian Medical Association



Healthcare Sector Skill Council



Punjab Skill
Development Mission



MSBVEE
Maharashtra State Board of Vocational
Education Examination



Diploma in Medical Laboratory Technician



Diploma in Medical Laboratory Technician



Duration - 2 Years

COURSE OBJECTIVES

The 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
- » Basic haematology, immunology, parasitology, histology, & general pharmacology
- » Blood banking, phlebotomy and handling special samples
- » Fine needle aspiration technique
- » Storage & transportation of samples
- » Lab information management system
- » Biomedical waste management
- » Infection control
- » Maintenance & cleaning of lab equipment
- » Materials management & supply chain management

ELIGIBILITY

- » Education - Class XII Science (PCB)
- » Minimum age - 17 years

CERTIFICATION

- » Diploma issued by Tech Mahindra SMART Academy for Healthcare
- » Diploma issued by the Indian Medical Association (IMA)
- » Diploma issued by Maharashtra State Board of Vocational Education Examination (MSBVEE)
- » Certificate issued by an 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 month long supervised on-the-job training at a reputed hospital

Delhi Healthcare Academy: Harijan Sevak Sangh, Gandhi Ashram, Kingway Camp, Near GTB Nagar Metro, New Delhi - 110 009

Mohali Healthcare Academy: D-187, Phase 8B, Industrial Area, Sahibzada Ajit Singh Nagar, Mohali - 160 071, Chandigarh

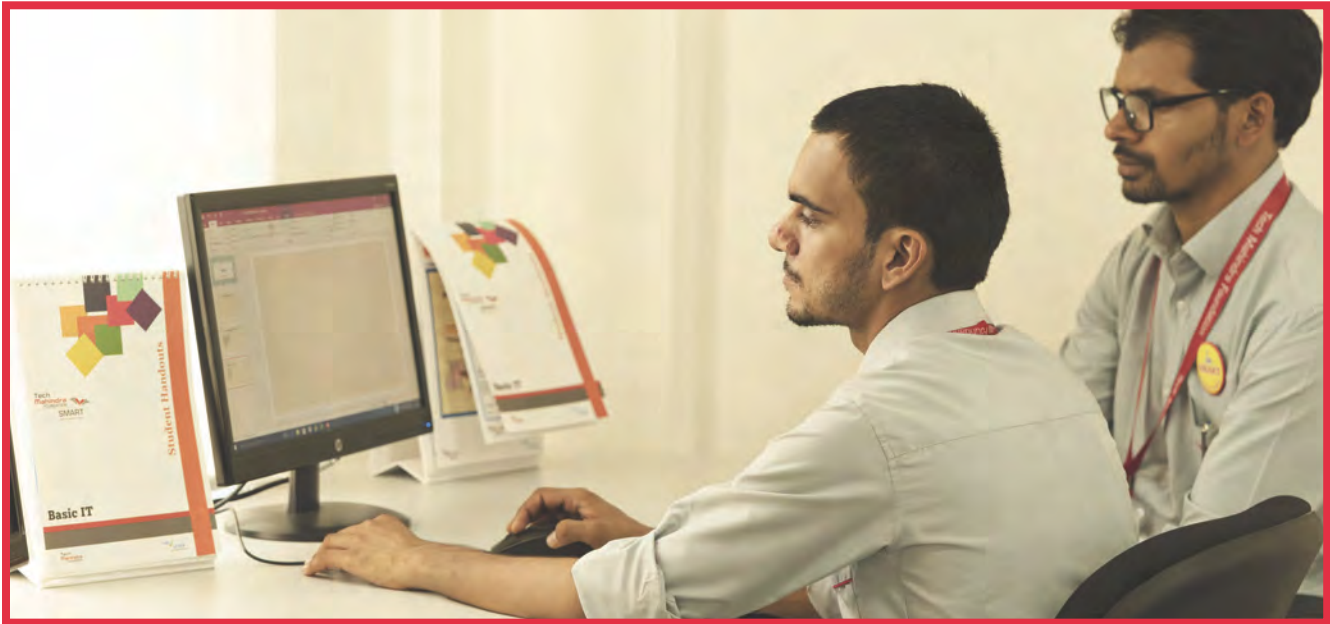
Mumbai Healthcare Academy: Auxilium Convent School, 6, Pali Hill, Rajendra Chowk, Mumbai - 400050

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



Diploma in Medical Record Technology

Diploma in Medical Record Technology



Duration - 2 Years

COURSE OBJECTIVES & CONTENT

This 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:

- » Basic anatomy, physiology & pathology
- » Reading a medical report
- » Medical Record Science
- » Medical terminology
- » Hospital Information systems
- » Biostatistics
- » International Classification of Diseases (ICD10) coding
- » Basics of medical transcription
- » Preparing a medical report, medical history
- » Formatting guidelines, proofreading & editing
- » Transcription procedures & common errors
- » Understanding different accents
- » Advanced English grammar & language
- » Legal and ethical aspects of medical records
- » Using software to maintain medical records
- » Software for medical transcription

ELIGIBILITY

- » Education - Class XII
- » Minimum age - 17 years

CERTIFICATION

- » Diploma issued by Tech Mahindra SMART Academy for Healthcare
- » Diploma issued by the Indian Medical Association (IMA)
- » Diploma issued by Maharashtra State Board of Vocational Education Examination (MSBVEE)
- » Certificate issued by an 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 month long supervised on-the-job training at a reputed hospital

Delhi Healthcare Academy: Harijan Sevak Sangh, Gandhi Ashram, Kingway Camp, Near GTB Nagar Metro, New Delhi - 110 009

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Diploma in X-ray & Imaging Technology

Diploma in X-ray & Imaging Technology



Duration - 2 Years

COURSE OBJECTIVES

This 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
- » Radiological physics
- » Basic concepts and production of X-ray
- » Positioning of the patient
- » Radiographic photography and dark room technique
- » Radiographic imaging material and equipment
- » Routine & special radiographic procedures
- » Radiation protection
- » Modern imaging techniques
- » Computerised tomography
- » Cath lab
- » Ultrasonography
- » Magnetic Resonance Imaging
- » Special procedures and the use of contrast media
- » Hospital practice & safety procedures

ELIGIBILITY

- » Education - Class XII Science (PCB)
- » Minimum age - 17 years

CERTIFICATION

- » Diploma issued by Tech Mahindra SMART Academy for Healthcare
- » Diploma issued by the Indian Medical Association (IMA)
- » Diploma issued by Maharashtra State Board of Vocational Education Examination (MSBVEE)
- » Certificate issued by an 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

- » Mandatory 6 month long supervised on-the-job training at a reputed hospital

Delhi Healthcare Academy: Harijan Sevak Sangh, Gandhi Ashram, Kingway Camp, Near GTB Nagar Metro, New Delhi - 110 009

Mohali Healthcare Academy: D-187, Phase 8B, Industrial Area, Sahibzada Ajit Singh Nagar, Mohali - 160 071, Chandigarh

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Diploma in Dialysis Technician

Diploma in Dialysis Technician



Duration - 2 Years

COURSE OBJECTIVES

The Diploma in 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 & renal nutrition
- » Common kidney disorders, diagnosis of kidney disease
- » Management of kidney disease
- » Predialysis preparation and assessment
- » Peritoneal dialysis & Haemodialysis
- » Vascular access
- » Heparin therapy
- » Complications arising from haemodialysis
- » Haemodialysis prescriptions
- » Water treatment methods

ELIGIBILITY

- » Education - Class XII Science (PCB)
- » Minimum Age - 17 years

CERTIFICATION

- » Diploma issued by Tech Mahindra SMART Academy for Healthcare
- » Diploma issued by the Indian Medical Association (IMA)
- » Diploma issued by Maharashtra State Board of Vocational Education Examination (MSBVEE)
- » Certificate issued by an on-the-job training partner

FACILITIES

- » Basic skills lab with an autoclave & sterilisation station
- » Fully functional dialysis lab with Fresenius & B Braun Dialysis machines
- » Dialyser & water treatment equipment

TRAINING & PLACEMENT

- » Mandatory 6 month long supervised on-the-job training at a reputed hospital

Delhi Healthcare Academy: Harijan Sevak Sangh, Gandhi Ashram, Kingway Camp, Near GTB Nagar Metro, New Delhi - 110 009

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Emergency Medical Technician

Emergency Medical Technician



Duration - 12 Months

COURSE OBJECTIVES

This course trains 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:

- » Assessment & evaluation of medical and trauma patients
- » CPR & usage of AED
- » Starting IV lines & administration of emergency drugs
- » Assessment & pre-hospital care of medical conditions of different body systems
- » Dressing & bandaging
- » Stabilisation & correct pick up techniques
- » Evacuation of trauma patients, including comatose and spinal injury patients
- » Basic anatomy & physiology
- » Infection control & biomedical waste management
- » Management of specific emergencies - poisoning, burns, head and spinal injuries, paediatric emergencies, mass casualty incidents, diabetic emergencies etc.
- » Care and use of common medical devices
- » Code of conduct for an EMT, patient rights & other legal issues

ELIGIBILITY

- » Education - Class XII
- » Minimum age - 18 years

CERTIFICATION

- » Certificate issued by Tech Mahindra SMART Academy for Healthcare
- » Certificate issued by the Healthcare Sector Skill Council
- » Certificate issued by an 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 month long supervised on-the-job training at a reputed hospital

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Diploma in Operation Theatre Technician



Diploma in Operation Theatre Technician



Duration - 2 Years

COURSE OBJECTIVES

This 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:

- » Basic anatomy, physiology, pathology
- » General pharmacology
- » General surgery, anaesthesia
- » Pre-operative care
- » Operative care
- » Operation theatre setup
- » Equipment care and maintenance
- » Sterilisation of operation theatre & surgical equipment
- » Positioning and assistance for operation theatre procedures
- » Basic nursing skills and critical care
- » Disposal of medical waste
- » Collection of samples & handling for further examination or analysis
- » Pre and post operation patient handling
- » Medicolegal aspects of anaesthesia
- » Patient rights and consent, medical ethics

ELIGIBILITY

- » Education - Class XII Science (PCB)
- » Minimum age - 17 years

CERTIFICATION

- » Diploma issued by Tech Mahindra SMART Academy for Healthcare
- » Diploma issued by the Indian Medical Association (IMA)
- » Certificate issued by an on-the-job training partner

FACILITIES

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

TRAINING & PLACEMENT

- » Mandatory 6 month long supervised on-the-job training at a reputed hospital

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Diploma in Cardiac Technology



Diploma in Cardiac Technology



Duration - 2 Years

COURSE OBJECTIVES

The Cardiac Technology 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
- » Hospital organisation and functioning
- » Basic anatomy and physiology
- » Basic pharmacology related to cardiac and critical care
- » Electrocardiography – ECG
- » Echocardiography & Treadmill Test
- » Introduction to Cath Lab Procedures and pacemakers
- » Grinding and making of spectacles
- » Introduction to critical care
- » Types of critical care units and departments
- » Ventilators and ventilatory support
- » Care and monitoring of unconscious and critical patients
- » Infection control practices
- » Biomedical waste management

ELIGIBILITY

- » Education - Class XII Science (PCB)
- » Minimum age - 18 years

CERTIFICATION

- » Diploma issued by Tech Mahindra SMART Academy for Healthcare
- » Diploma issued by Indian Medical Association
- » Certificate issued by an on-the-job training partner

FACILITIES

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

TRAINING & PLACEMENT

- » Mandatory 6 month long supervised on-the-job training at a reputed hospital

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Hospital Front Office & Billing Executive



Hospital Front Office & Billing Executive



Duration - 6 Months

COURSE OBJECTIVES

This 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 and 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 and difficult situations

ELIGIBILITY

- » Education - Pursuing last year of Graduation
- » Minimum age - 18 years

CERTIFICATION

- » Certificate issued by Tech Mahindra SMART Academy for Healthcare
- » Certificate issued by an 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

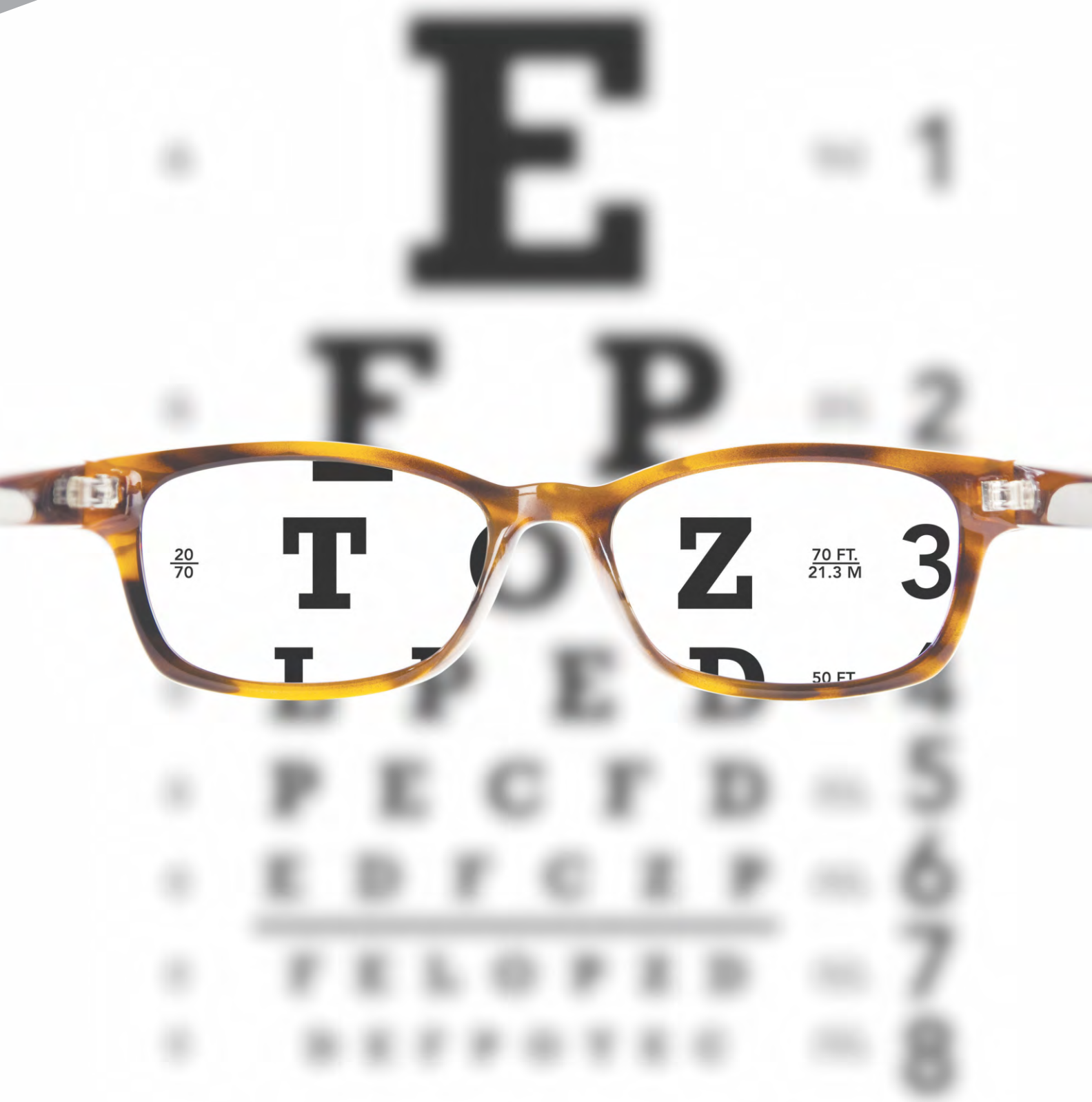
- » Mandatory 2 month long supervised on-the-job training at a reputed hospital

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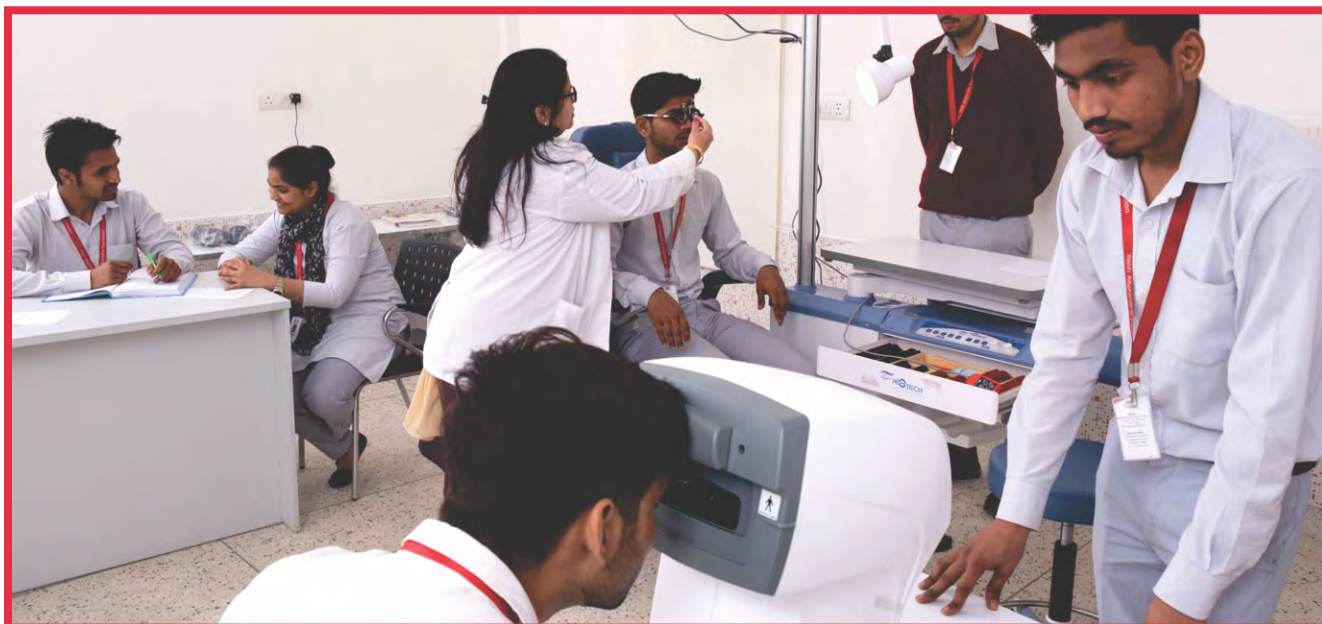
Pune Healthcare Academy: Eusebia Welfare Centre, Sr No 93/92/2+3, Mundhwa Road, Mundhwa, Pune - 411036, Maharashtra



Vision & Ophthalmic Assistant



Vision & Ophthalmic Assistant



Duration - 12 Months

COURSE OBJECTIVES

The Vision & Optometric Technician 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
- » Roles and responsibilities of a Vision Technician
- » Obtaining case history of patients
- » Common eye problems and infections
- » Vision assessment of eye hospital based patient
- » Assist eye specialist in the examination of patients
- » Dispensing optical prescription and spectacle lens accurately
- » Grinding and making of spectacles
- » Follow the Biomedical waste disposal protocol
- » Follow the Infection control policies and procedures
- » Consent, observing, reporting, and documentation
- » Basic Life Support
- » Counseling and patient rights

ELIGIBILITY

- » Education - Class XII (Science)
- » Minimum age - 18 years

CERTIFICATION

- » Certificate issued by Tech Mahindra SMART Academy for Healthcare
- » Certificate issued by Maharashtra State Board of Vocational Education Examination (MSBVEE)
- » Certificate issued by an on-the-job training partner

FACILITIES

- » Fully equipped Optometry Lab
- » IT lab, English training and soft skills training
- » Basic Skills Lab

TRAINING & PLACEMENT

- » Mandatory 4 month long supervised on-the-job training at a reputed hospital

Delhi Healthcare Academy: Harijan Sevak Sangh, Gandhi Ashram, Kingway Camp, Near GTB Nagar Metro, New Delhi - 110 009

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General Duty Assistant

General Duty Assistant



Duration - 6 Months

COURSE OBJECTIVES

This 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 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
- » Daily care for a patient
- » Administering drugs as per prescriptions
- » Basic nursing skills
- » Disposal of medical waste
- » Understanding body mechanics
- » Patient handling, lifting, and moving patients
- » Fall prevention care and restraints
- » Emergency first aid and CPR

ELIGIBILITY

- » Education - Class VIII
- » Minimum age - 18 years

CERTIFICATION

- » Certificate issued by Tech Mahindra SMART Academy for Healthcare
- » Certificate issued by the Healthcare Sector Skill Council
- » Certificate issued by an 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 skills training

TRAINING & PLACEMENT

- » Mandatory 2 month long supervised on-the-job training at a reputed hospital or laboratory

Delhi Healthcare Academy: Harijan Sevak Sangh, Gandhi Ashram, Kingway Camp, Near GTB Nagar Metro, New Delhi - 110 009

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



Hospital Store Assistant



Hospital Store Assistant



Duration - 6 Months

COURSE OBJECTIVES

This course has been designed to cater to the needs of skilled entry level store assistants in leading hospitals and healthcare facilities. The course aims to train students on the fundamentals of store-keeping, store delivery to the wards and departments, thus enabling the staff at the point of care to focus their energy and attention on attending to the patient.

The course curriculum covers the following topics:

- » Introduction to the Healthcare systems in India
- » Organisation of a modern hospital
- » Understanding of Medical terminology
- » Hospital Store supplies and storage
- » Inventory planning, management and re-order estimation
- » Medical supplies correct storage methods and precaution
- » Understanding of material supplies from suppliers, storing it and issuing to the wards and departments
- » Material delivery to wards and departments on a regular and timely basis
- » Monitoring life cycles with special reference to consumables with an expiry
- » Stock taking and audit protocols
- » Biomedical waste management

ELIGIBILITY

- » Education - Class XII
- » Minimum age - 18 years

CERTIFICATION

- » Certificate issued by Tech Mahindra SMART Academy for Healthcare
- » Certificate issued by an on-the-job training partner

FACILITIES

- » Fully equipped computer lab with latest software
- » Well qualified faculty
- » Library

TRAINING & PLACEMENT

- » Mandatory 2 month long supervised on-the-job training at a reputed hospital

Delhi Healthcare Academy: Harijan Sevak Sangh, Gandhi Ashram, Kingway Camp, Near GTB Nagar Metro, New Delhi - 110 009

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Phlebotomy Technician

Phlebotomy Technician



Duration - 6 Months

COURSE OBJECTIVES

The Phlebotomy Technician course is designed to prepare healthcare 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

ELIGIBILITY

- » Education - Class XII (Science)
- » Minimum age - 18 years

CERTIFICATION

- » Certificate issued by Tech Mahindra SMART Academy for Healthcare
- » Certificate by Healthcare Sector Skill Council
- » Certificate issued by an 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 month long supervised on-the-job training at a reputed hospital or laboratory

Delhi Healthcare Academy: Harijan Sevak Sangh, Gandhi Ashram, Kingway Camp, Near GTB Nagar Metro, New Delhi - 110 009

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Mumbai Healthcare Academy: Auxilium Convent School, 6, Pali Hill, Rajendra Chowk, Mumbai - 400050

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Hospital Hygiene Assistant

Hospital Hygiene Assistant



Duration - 15 Days

COURSE OBJECTIVES

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 Hospital Hygiene Assistant course curriculum covers the following topics:

- » Biomedical Waste Management
- » Personal Hygiene
- » Cleaning procedures and protocols for Hospital set up
- » Hospital Housekeeping equipment handling
- » Disinfectants and their correct usage and tools for cleaning
- » Decantation of the medical device like Urine Bag, Bedpan, diapers etc.
- » Body Mechanics related to patient shifting with stretcher, wheelchair, and movable beds
- » Patient Safety
- » Hospital Infection control practices
- » Setting up the attendants trolley with appropriate linen and supplies

ELIGIBILITY

- » Education - Class VIII
- » Minimum age - 18 years

CERTIFICATION

- » Certificate issued by Tech Mahindra SMART Academy for Healthcare
- » Certificate by Healthcare Sector Skill Council

TRAINING & PLACEMENT

- » 15 days Training includes online classes and on the job training in healthcare setup

Delhi Healthcare Academy: Harijan Sevak Sangh, Gandhi Ashram, Kingway Camp, Near GTB Nagar Metro, New Delhi - 110 009

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Home Health Aide

Home Health Aide



Duration - 4 Months

COURSE OBJECTIVES

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 Home Health Aide (HHA) course curriculum covers the following topics:

- » Basic human anatomy & physiology
- » Understanding a patient's needs
- » Caring for the visually impaired
- » Daily care of a patient
- » Feeding a patient
- » Understanding body mechanics
- » Fall prevention care and restraints
- » Communication with patients and their careers
- » General health & hygiene
- » Special skin care for pressure sores
- » Role of a patient care assistant
- » Bathing a patient
- » Administering drugs as per prescriptions
- » Disposal of medical waste
- » Patient handling, lifting, and moving patients
- » Emergency first aid

ELIGIBILITY

- » Education - Class VIII
- » Minimum age - 20 years

CERTIFICATION

- » Certificate issued by Tech Mahindra SMART Academy for Healthcare
- » Certificate by Healthcare Sector Skill Council

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 at home care or a healthcare facility

Delhi Healthcare Academy: Harijan Sevak Sangh, Gandhi Ashram, Kingway Camp, Near GTB Nagar Metro, New Delhi - 110 009

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