

# GPMC-Dialysis Technician (DT)

An allied healthcare professional who operates and maintains dialysis machines for patients with kidney diseases. Kidney dialysis makes the difference between life and death for those who suffer from renal failure. These technicians maintain and operate the equipment used for dialysis, a process that cleanses the blood of metabolic waste products.

## Objectives

**After completion of the course, participants will be able to:**

- Assess and cannulate vascular access for HD.
- Operate the machine according to Nephrologist's order.
- Monitor the patient, machine, and respond to various alarms during the procedure.
- Terminate an HD session and disconnect the patient from the machine.



## Course Description

- Anatomy & physiology of human body
- Detailed renal anatomy & Physiology
- Renal failure & management
- History & introduction of Hemodialysis
- Scientific principles & practice of Hemodialysis
- Vascular access for Hemodialysis
- Anticoagulation in Hemodialysis
- The Dialyzer-Artificial kidney
- Dialysate composition
- Water treatment for Hemodialysis
- Complications of Hemodialysis & management
- Infection control in Hemodialysis
- Dialysis for ARF & Continuous Hemodialytic techniques
- Extra corporeal detoxification
- Care of patients on HD
- Peritoneal Dialysis
- Introduction to Urea Kinetic Modeling
- Renal Transplantation
- Dialysis Unit management

## Highlights

- Theory+Simulation : 800 Hours
- Clinical Internship : 800 Hours
- Eligibility : 10+2
- Duration : 1600 Hours/ 12 Months
- Certification : GPMC/NSDC