

# Diploma in Perfusion Technology

## DPFT



# Diploma in Perfusion Technology What is it About?

A Perfusionist is an important team member in the surgical team. They are also known as Clinical Perfusionist or Cardiovascular Perfusionist or Certified Clinical Perfusionist.

They mainly help the surgeon to operate the machine of heart-lung during cardiac surgery and other surgeries which require cardiopulmonary bypass.

To monitor the desired levels of oxygen and carbon dioxide in the patient's body, to control the speed of blood circulation, the patient's temperature, etc. there is demand for trained or qualified perfusionists.

This course mainly focuses on developing a strong knowledge base in cardiothoracic anatomy, physiology and pathophysiology, pharmacology, fetal and neonatal cardiac development and perfusion science among the students.

Under this course, you will study about Human Anatomy, Physiology, Biochemistry, Pathology, Microbiology, Applied Pathology, Clinical perfusion technology etc.



# Career prospects

There is the wide scope of career in health care sector with the increasing growth of multi specialty hospital.

Being a perfusionist, you can work for perfusion equipment suppliers as sales and marketing executives for perfusion products.

A person having experience in this field can work in the management field also like managing departments, oversee budgets, etc.

A perfusionist, with higher education, can look for a career in teaching also.

One can also engage themselves in research work also.

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A perfusionist is required to monitor the levels of oxygen as well as the other gasses which are entering into the blood as to avoid possible coagulation or blood clotting.

A perfusionist is required to monitor the blood circulation and controls its speed.

Another job that a perfusionist has is to take care of the temperature of the patient, which is required to be constant

A perfusionist must take care of the composition of the flowing blood.

A perfusionist must also be careful as to the medications which are to be incorporated along with other blood products as instructed by the doctor in charge

Other jobs include checking on the equipment, managing new orders and supplies and ensuring the proper working of the machines.

A perfusionist is also required to take care of other machines like the ECMO or the extra Corporeal Membrane Oxygenation machine particularly in emergency cases where neither heart or lung or both are not functioning properly.

A government perfusionist can earn from Rs. 8000 to 10,000 based on their background and experience.

A privately appointed perfusionist can earn up to Rs 30,000 depending on the duty.

