



Benefits to the Individual

- It gives you the chance to work in a healthcare setting without having to undergo the extensive training that doctors do.
- It gives knowledge and skills required to work as an entry level perfusion technician.
- As an occupation in healthcare the chance to provide assistance and support to patients and their families undergoing heart surgery
- Sounds technical knowledge and skills to handle perfusion equipment.

Benefits to the Organisation

- Skilled human resources for better management of patient during surgery.
- Trained workforce with technical knowledge and aptitude of handling sophisticated equipments.

For Registration Call
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ONLINE DIPLOMA PROGRAM IN PERFUSION TECHNICIAN



About AIIS

Astron Institute of International Studies (AIIS), an academic vertical of Astron Group, Gurgaon, is focused on the intensively growing and continually developing fields of public and community health with emphasis on the underserved section of society at large. It envisions promoting excellence in Healthcare, Research, Education, Training, Skill Enhancement and Consultancy Services. According to National Health Policy 2015 there is a need for planned expansion of allied technical skills including medical and paramedical workforce. AIIS, with its Vision and Mission to contribute to the fulfillment of that goal, works towards development of healthcare workforce with specialized skills and knowledge.

Program Overview

Diploma programme in perfusion technology has been conceptualized to teach the candidate the basic role of perfusion technician within health care setting. Perfusion is the science of providing extracorporeal circulation in order to artificially support and temporarily replace a patient's respiratory and circulatory systems. Perfusion Technicians are members of the cardiac surgical team and provide lifesaving support to patients requiring extra corporeal circulation including but not limited to major cardiothoracic, vascular and transplant surgeries, as well as support to critically-ill patients.

Who is a Perfusion Technician

A perfusion technician forms an integral part of the team that carries our cardiac and other relevant surgeries. Perfusion Technicians prepare and operate heart-lung machines and other sophisticated equipment as directed by healthcare physicians. They measure blood pressure and other parameters to identify appropriate mechanical, pharmacological and thermal manipulation to maintain tissue viability.



Objectives

- To understand the handling of heart lung machine
- To understand the concept of perfusion and its advantages
- To understand the functioning, maintenance of perfusion equipments and its sterilization

Eligibility Criteria

- * Minimum eligibility is 10 + 2 from Central or State board with Science Stream

Program Duration

Duration	Certification
One Year (9 Months Theory Classes and 3 Months Hospital Training)	• Astron Institute of International Studies (AIIS)

Contents

- 01) Anatomy and physiology
- 02) Introduction to perfusion technology
- 03) Pathology
- 04) Pharmacology
- 05) Instrumentation and measurement
- 06) Perfusion equipment
- 07) Perfusion techniques
- 08) Clinical application of bypass techniques
- 09) Occupational aspects of perfusion
- 10) Postoperative intensive care unit management
- 11) Cardiopulmonary resuscitation
- 12) Ventilators

Course Highlights

- Program pedagogy which includes Webinar, Student Faculty Chat by Subject Experts and Project Work.
- Reference subject through E-library.
- Program materials developed by Experts.
- Each block culminating into a qualifying Assignment.
- Credit based teaching outcomes for global application

Evaluation and grading

Evaluations will collate candidate performance based on Self Assessment, Term End Assessment, completion of Project Work , participation in Webinar, participation in student-faculty chat. Grading will be done based on alphabetical grade point percentage.

