

Outline and recommendations for departments regarding education of perfusionists

To the persons responsible for employing and educating perfusionists at the heart centres.

Each department is recommended to start the process of recruitment around 6-9 months before the start at the Scandinavian School of Cardiovascular Technology - with the aim to effect the employment at least 3 months before school starts.

The centres expecting to hire a student should have in mind the demands for both theory and practice. Please carefully consider that the future employee will be not only a future perfusionist, but also a university student.

The following is an outline of the requirements from the school, expectations to the departments and the future students, and recommendations for recruitment.

Structure of the education.

The perfusionist education consists of a theoretical and a practical part. The major part of the theory will take place within the science-based education in Cardiovascular Technology, but practical training and certain theoretical instructions must be carried out at the department of employment.

The science-based education is equal to a one year of full-time university study at master level and gives 60 ECTS points. The classes at the science-based education of perfusionists are conducted in English and have declared academic as well as professional aims. They comprise of three different courses: 1) Biomedical technology and research, 2) Physiology and treatment, and 3) Perfusion techniques. The classes are condensed and intensive, and for the most part in the form of normal class lectures. The teaching will take place in Aarhus in 3 modules of 6 weeks each. Except for one week that will be held in Göteborg. Performing a scientific study and writing the scientific thesis is the fourth module. We are currently re-negotiating the Master-status with the university, but cannot expect it to be settled for the next course.

The practical training will take place at the employing hospital and an exchange hospital, - and it is an indispensable part of the perfusionist education and a prerequisite for obtaining the certification issued by the European Board of Cardio-vascular Perfusion (ECBP). Apart from the actual training certain demands for the local formal instructions must be met. The practice is described in detail in the Logbook.

Please read the introduction part of the logbook to learn the recommendations for the practical training. And take note of the new standards for clinical practice. These are in draft version, allowing for you to give feedback if you disagree or have other suggestions. A final version of the logbook will be published later. We strongly recommend you to use the logbook from the beginning of the training, and comply with recommendations, checklists and instructions.

Structure of the education:

Home hospital	Intro / practical training	> 3 months
Aarhus	Module 1 (3 courses, 3 exams)	6 weeks
Home hospital	Practical training - and instructions	4 months
Aarhus	Module 2 (3 courses, 2 exams)	6 weeks
Home hospital	Practical training - and instructions	5 months
Aarhus	Module 3 (3 courses, 3 exams)	6 weeks
Home hospital	Practical training - and instructions	~4 months
Visit hospital	Practice exchange at another relevant hospital	2 weeks
Home hospital	M4: thesis writing (can be earlier or later)	3-6 weeks, off duty
Home hospital	Training/ practical exam → Logbook submission	~3 months
Aarhus	Thesis exam and Graduation	1 day

- The Scientific Course at the School in Aarhus + thesis writing home. (marked in grey shading).
- The practical training (white), under the home hospital, supervised and monitored by the school (logbook)

Certification as a qualified, Clinical Certified Perfusionist (CCP) is obtained when:

1. The exams of the science-based education have been passed, and the scientific thesis has been accepted.
2. The Logbook has been approved (including 100 perfusions), and the practical examination has been passed successfully.

The school recommends the following, with regards to the recruitment process and employment:

Employment:

- Employment should be planned so as to start the practical education *at the latest* three months before start of the theoretical education at the school.
- Employment to start more than a year before start of school is not recommended, - but may be accepted if circumstances demand.
- The position of a perfusionist student/trainee must be a full-time employment for the 2-year education course in order to make the best possible use of the practice periods for training and practice.

Qualification demands in relation to the science-based education: The applicant must:

- Have an education which corresponds to a bachelor's degree, within a relevant medical or technical field.
- Have two years of relevant professional experience after graduation.
- Have good skills in both written and spoken English language.
- Have skills in mathematics and physics corresponding to at least High School (Gymnasium) level B.
- Knowledge in anatomy and physiology corresponding to first semester of the Nursing study.
- Be able to travel and stay in Aarhus 3 times during the education.
- Be ready to use time and energy on studies outside of normal working hours.

Qualification demands in relation to the work as clinical Perfusionist:

- A person with highly developed sense of responsibility, honesty and personal integrity
- Technical flair and practical skills
- Good interpersonal and communicative skills. Self-confidence to speak up when needed. Team player
- Good learning capacity

Expectations from the school to the department:

- At employment the student must be affiliated to a supervisor, who will also act as the formal contact to the school. The supervisor should hold an EBCP certification, and preferably a Master degree (or similar level)
- Introduction and supervision shall take place according to the Logbook.
- The logbook must be used actively in the practical training from the start of the employment.
- The supervisor and chief perfusionist are responsible for the organization of the internal education and teaching, as described in the Logbook. A log of witnessed and performed perfusions must be held.
- The decision of giving responsibility to the trainee is in the hand of the supervisors/department - not the school
- The employee is away from the department as described; three of the periods in Aarhus and 2 weeks of practice at another hospital.
- The department, should comply with the minimum standards for clinical practice, as stated by the school (Logbook 2024)
- Accommodation and transport must be arranged by the home hospital.
- We recommend that the student should attend a scientific meeting, such as SCANSECT/SATS, during the study.
- The department must provide support for the student in connection with the thesis, i.e., scientific and practical support for the choice of a relevant scientific project, and guidance in the practical implementation. The 6 weeks for the writing must be placed at a suitable time for the project to be finished in time before the examination. If 6 weeks is not possible, 3 weeks is considered a minimum.
- Examination and evaluation of the science-based project will take place locally in collaboration with the affiliated university with attendance from a representative from The Scandinavian School of Cardiovascular Technology

Expected expenses apart from the employment:

- School fee
- Travel and lodging expenses in connection with the three periods of theoretical education at the school in Aarhus, and a shorter period in Göteborg. Also for the following graduation ceremony (i.e. 4 return trips and a total of ca. 110 days).
- Travel and lodging expenses in connection with the study period at the exchange hospital, at least 2 weeks.