

UNIVERSITY OF NEBRASKA MEDICAL CENTER  
COLLEGE OF ALLIED HEALTH PROFESSIONS

CLINICAL PERFUSION EDUCATION PROGRAM

**ESSENTIAL FUNCTIONS**

**Introduction**

Students accepted to the Clinical Perfusion Education Program are required during their training to perform specific tasks with or without accommodation. The tasks will vary in frequency of occurrence and require specific physical involvement.

This checklist is provided to:

1. Aid the applicant in understanding the physical requirements associated with clinical perfusion practice.
2. Attempt to identify tasks which applicant may need to request necessary accommodation.

**The Clinical Perfusion student must be able to:**

1. Reach to the floor intermittently for up to 1 hour to assemble heart lung machine.
2. Move laterally in a low position.
3. Reach to 6 feet.
4. Stack 20 pound boxes from a ladder.
5. Lift 40 pounds from a height of 6" to 36".
6. Push and pull 50 pounds.
7. Push 1/16" to 1/2" tubing onto a connector up to a second barb without touching the ends.
8. Attach a metal bracket with various motions onto a pole at levels varying from 18 to 60 inches.
9. Assemble Luer lock devices. These are small (1/16") devices attached with a screwing action.
10. Place disposable supplies in a holder designed specifically for those devices. This involves a steady hand and coordination to precisely line up the device to allow it to fit into the holder and lock into place with both screwing and lever locking actions.
11. Move various pieces of the circuit to the appropriate place. This will involve moving around a 5' by 2' machine to make the appropriate connection.
12. Tear open packages without touching interior package contents.
13. Stand and/or sit without a break for up to 8 hours.
14. Work steadily and remain alert for up to 24 hours with minimal breaks
15. Operate computer keyboard.
16. Turn 1" diameter knobs on pump to precise level within a 2-second response time.
17. Clamp and release tubing clamps to precise locations on tubing at levels of 6" to 72".
18. Conduct surgical learning activities associated with a living animal model.
19. Tolerate temperatures between 50 and 85 degrees F for 8 hours.
20. Wear a surgical face mask.
21. Wear protective eye wear.
22. Wear surgical gloves.
23. Inject blood from a syringe into a test tube with or without a needle.

24. At 12 ft. read ½" tall numbers from a monitor.
25. At 20 ft. read 1" tall numbers from a monitor.
26. Read characters singular and in columns and transpose.
27. Distinguish between a full range of shades of red.
28. Visually detect an air bubble of 0.5 mm diameter in a clear solution or blood inside tubing.
29. Be able to hear normal speaking voices with background noise and faces masked and facing away from you from up to 10 feet away.
30. When speaking, be audible and understandable with face masked and with background noise from up to 10 feet away.
31. Be immediately available via electronic assets for emergencies.
32. Be able to travel to hospital, change into scrub attire and report to clinical service within 30 minutes of notice.
33. Be able to use a pen to transcribe data accurately onto records.

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These standards identify the requirements for admission, retention and graduation from the program. It is the responsibility of the student with disabilities to request those accommodations that he/she feels are reasonable and are needed to execute the essential functions described.

Reasonable accommodations are provided for students who are registered with UNMC Accessibility Services Center (UNMC ASC) and make their requests sufficiently in advance. For more information, contact UNMC ASC (Location: Student Life Center, Suite 2030; Phone: 402.554.2872, [unmcasc@unmc.edu](mailto:unmcasc@unmc.edu)).