

Central Line Testing Instructions: Learners

Welcome to the central line testing session. **Please read the front and back of these instructions carefully.** Today you will be tested on the following components of central line insertion:

- Sterile technique
- Ultrasound-guided internal jugular insertion and central line removal
- Landmark-based subclavian insertion
- Femoral insertion (verbalized)

Your assigned proctor will grade you on each of these components using a checklist on a tablet. Each of the three checklists (sterile technique, IJ, and subclavian) consist of many critical and non-critical steps. You must pass all of the critical steps and 85% of the non-critical steps of each checklist in order to pass. It is possible that you will pass one station and fail another station.

We will break you up into pairs and assign you to a proctor. One person in each pair will begin as the inserter and insert their first line while the other person acts as an observer. You will then switch stations and the same inserter will complete their second procedure. Then, the inserter and observer will switch roles and the new inserter completes their two central lines. A simulation specialist will be available to guide you from station to station.

As an observer, you will act as the nurse and must follow along with your hospital's central line observer checklist. You must fill out the checklist while your partner performs the procedure. You can call out anything your partner does which breaks anything on this checklist; however, you cannot assist them by suggesting how to correct their mistake. If the action is corrected, the inserter will pass that item on the checklist. You also must not prompt the next steps while your partner is performing the procedure. In the case of an odd number of participants, the participant without an observer will have the proctor act as the observer while simultaneously grading on the tablet.

The following is very important: You will be graded on sterile technique prior to your first insertion. You will be graded on central line removal only at the end of the internal jugular insertion. Your proctor will ask you questions about femoral insertion while you are inserting the internal jugular line. They may also ask you clarifying questions throughout each procedure.

(turn over)



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Once you have completed your first insertion, leave your patient draped, collect all of your central line kit materials on the bedside table, and move your bedside table to the second mannequin to complete your second procedure. You will reuse the central line kit for the second procedure. This second mannequin will be already prepped and draped. You have already been graded on sterile technique, so verbalize and assume that you have completed all of the necessary steps up until this point in a sterile fashion. You do not need to re-gown. However, you must still maintain asepsis at all times. When you are finished, please dispose of the supplies appropriately in sharps containers.

All the supplies you will need should be on top of the central line cart and on your bedside table. If you need extra, check inside the cart. If you still can't find what you need, please ask your proctor or the simulation specialist.

The central line kit will probably be different than what you're used to. The ultrasound machine will also be slightly different.

Do not use a scalpel, suture, tape, tegaderm, or dilator on the mannequins. Please verbalize the steps instead. Please do not remove the adhesive on the drape. Sometimes the guide wire cannot be fully advanced or the central line cannot be fully inserted. Verbalizing the correct steps is appropriate if this happens. Operators cannot fully insert the central line in some cases or fully advance the wire. Positioning of the bed may also be limited. Verbalizing that the patient is placed in Trendelenburg is adequate.

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