

## PHLEBOTOMY LAB

### SPACE DESCRIPTION

The Phlebotomy Lab is a dedicated, combined classroom and skills lab for lectures and hands-on training in venipuncture, performing blood draws and providing transfusions. Phlebotomy Labs are similar to other Health Sciences labs, but require equipment and space planning specific to the program. A Storage room shall adjoin the Phlebotomy Lab.

The layout shown is illustrative of basic concepts and spatial needs. Specific requirements may be accommodated on a project by project basis, according to each campus' needs.

As all programs in the Healthcare field quickly evolve and advance with technology, so too, must the space they occupy. The Lab shall be planned with flexibility and reconfiguration in mind.

### SUCCESS FACTORS

**Combined space:** Training is most successful when instructors and students can move back and forth between lecture and skills practice.

**Experiential:** Students in the Phlebotomy program are learning techniques for blood draws and transfusions. They require all the necessary resources, practicing venipuncture on mannequin arms and using realistic equipment to simulate and experience real-life situations.

**Safety:** OSHA, sterilization, infection control

**Storage:** Storage space is critical for linens, a gurney, and miscellaneous items. Connections for a washer and dryer shall be provided in the Storage room.

### GENERAL

All perimeter walls shall be full height to deck.

### ADJACENCIES

Separate but adjacent space is required for the following: **Storage.** A kitchen shall be provided inside the Phlebotomy Lab or within close proximity, see **Mock Apartment** standard.

Ideally, Phlebotomy Labs adjoin other programs in the healthcare sciences for efficiency in shared spaces and cross-training between programs. Phlebotomy Labs shall be located within close proximity to faculty offices.

### ACOUSTICS

Acoustic ratings for Phlebotomy Lab perimeter walls: STC 50. Special accommodations may be required due to location in the building.

Maximum recommended HVAC Background Noise: 40dBa

Follow the recommended methodologies and best practices for mechanical system noise control in ANSI Standard S12.60; the 2015 ASHRAE Handbook-- HVAC Applications, Chapter 48, Noise and Vibration Control (with errata); and AHRI Standard 885-2008.

Maximum NC Level for VAV's shall be less than 30 at maximum CFM

## MECHANICAL

Window or room unit systems are not acceptable in Phlebotomy Labs due to poor acoustic performance.

Verify specific needs on a project-by-project basis while planning for flexibility in the future. Provide the following, at minimum:

- Provide handwash sinks with foot pedals or sensors.

## ELECTRICAL & DATA

Place wall outlets at no more than 6' intervals or as necessary to allow for 30% coverage. When laptops are a requirement for learning, special consideration is necessary. Coordinate with data requirements.

- Provide power and data for standard Learn Anywhere technology package:
  - o 2 (+/-) 75" touchscreen TVs on the front teaching wall
  - o 1 (+/-) 75" smart TV and camera on the rear wall for virtual classes
  - o Instructor station with PC
  - o Audio/ sound system to include instructor microphone, soundbars and wireless connection to student headsets as needed.
- ALTERNATE: Provide power and data in ceiling for 2 projectors at the front wall, in lieu of touchscreen TVs.
- Provide power and data for student laptops at each blood draw station.

Provide power and data at 6' intervals along perimeter walls at locations which may be used for desktop computer workstations and/or lab equipment.

## LIGHTING

- Provide LED lighting system with appreciable indirect component and good diffusion for maximum visibility from all directions.
- Provide controls for zoning and dimming. Front row shall be switched separately with three preset dimmable levels: low, medium, high. Provide a dimmer switch at the Instructors Station.
- Provide task lighting at blood draw stations.
- Provide low-brightness luminaires with high visual comfort probability (VCP) in all viewing directions. Average 40fc at 30" A.F.F. Min CRI 80.
- Lighting watts per square foot and controls shall meet the latest requirements of ASHRE 90.1

## TECHNOLOGY

- Provide Wireless capability throughout Phlebotomy Labs.
- Coordinate equipment for Learn Anywhere technology package, per Ivy Tech specification.
- Provide data outlets at same interval as power.
- Provide telephone service.

## ACCESSORIES AND EQUIPMENT

Equipment needs include:

- On side walls, provide 8'-0" tack strip mounted 72" A.F.F. and 8'-wide whiteboard with marker tray. Rolling whiteboards may also be used.

- In ALTERNATE layout: On front teaching wall, provide 16' wide projectable whiteboard with marker tray. Whiteboard shall be matte white, low-glare, 4.0 gain; and must support 16:9 projection dimensions.
- Blood draw stations with the following:
  - o Phlebotomy chairs
  - o Sharps containers
- Demonstration bed
- Centrifuges
- Wall-mounted glove dispensers
- Wall-mounted hand sanitizer dispensers
- Countertop workstation with computer and printer for blood draw samples

## FURNITURE

Furniture shall be selected for flexibility and mobility. Provide the following standard furnishings for Phlebotomy Labs:

- Tables and chairs on casters for flexibility and mobility, coordinating caster type with flooring material.
- Workstations shall have integral power and data connections.
- Wall, base and tall cabinets with locks.

## FINISHES

### Ceilings

Recommended Height: 9' to 10', with special consideration to acoustics when greater than 10'.

Ceilings shall have an NRC of .70 to .85.

In renovations, classrooms without full height perimeter walls shall have ceilings with high CAC (Ceiling Attenuation Class) values.

### Floors

Hard surface, no-wax flooring is required.

### Countertops

Solid surface required for all wet and chemical areas.

## DOORS AND WINDOWS

Phlebotomy Lab doors must allow the movement of hospital beds. Provide 5'-0" clear, minimum.

Doors shall be minimum STC 30 with 6" x 30" Window Lite preferred.

Provide locked entry door. Key fob access preferred.

## STORAGE

### SPACE DESCRIPTION

Directly adjacent to the Phlebotomy Lab, the Storage Room provides a secure location for the storage of equipment and supplies.

Provide lockset door hardware.

Provide the following:

- Heavy-duty wall shelving or storage racks
- Full-size refrigerator