**Biomedical Laboratory Science**

**\*Those who want to succeed/place high we strongly recommend purchasing the book(s)\***

Round One:

60% of content

* <https://quizlet.com/182691593/hosa-biotechnology-lab-equipment-flash-cards/>
* <https://quizlet.com/165726005/biotechnology-industry-equipment-products-raw-materials-flash-cards/>
* <https://quizlet.com/170543585/lab-safety-infection-control-hosa-biomed-lab-science-flash-cards/>
* <https://quizlet.com/169197917/proteins-and-enzymes-flash-cards/>
* <https://quizlet.com/192027802/hematology-and-serology-flash-cards/>
* <https://quizlet.com/170790396/careers-in-medical-lab-and-biotechnology-flash-cards/>

40% of content:

* <https://quizlet.com/177425493/dna-structure-and-function-flash-cards/>
* <https://quizlet.com/214629812/hosa-biotechnology-terms-flash-cards/>
* <https://quizlet.com/143624963/hosa-ch-61-vocab-introduction-to-clinical-chemistry-flash-cards/>

Skill I: Identifying Laboratory Instruments (Including name of instrument and purpose or use.):

* <https://quizlet.com/117100218/hosa-biomedical-laboratory-science-skill-1-identifying-lab-equipment-and-purpose-flash-cards/>

Skill II: Infection control and transmission-based precautions:

* <https://quizlet.com/195056024/skill-ii-infection-control-and-transmission-based-precautions-flash-cards/>
* <https://www.youtube.com/watch?v=DY5l1HEZrjY>

Skill III: Inoculate and streak an agar plate

* <https://quizlet.com/130765276/hosa-inoculate-and-streak-agar-plate-flash-cards/>
* <https://www.youtube.com/watch?v=6-chXVgu8Z0> **(THIS VIDEO DOES NOT ENTIRELY DEPICT THE PROCEDURE YOU WILL CONDUCT IN YOUR COMPETITION. THIS VIDEO WILL ONLY GIVE YOU A ROUGH IDEA OF WHAT YOU WILL DO (MINUS A LOT STEPS. ONLY WATCH FROM 0.00-1.25)**

Skill IV: Using a microscope

* <https://quizlet.com/130369864/skill-iv-using-a-microscope-flash-cards/>
* <https://www.youtube.com/watch?v=f7KlFSgdUGU> (**This video does a good job by covering the main components of this skill; however, there are some steps not included so please refer to the quizlet in order to develop a more cogent understanding of what you will need to do for Skill IV.)**

Skill V: ABO Grouping:

* <https://quizlet.com/130603847/hosa-abo-grouping-flash-cards/>

Skill VI: Gram Stain:

* <https://quizlet.com/113130151/skill-vi-hosa-gram-stain-flash-cards/>
* <https://www.youtube.com/watch?v=ccMvyBcxvJc> **(This video will focus on the most important steps; however, the video will have some crucial steps skipped and include some extra steps. PLEASE refer to the official hosa guide for this event and the quizlet to know what you need to know for this skill.)**
* <https://www.youtube.com/watch?v=sxa46xKfIOY> **(watch from 1:49-end. You will receive a prepared slide so you do not need to watch the beginning portion of this video)**

Skill VII: Preparing a Laboratory Solution

* <https://quizlet.com/128392372/bls-skill-vii-preparing-a-laboratory-solution-flash-cards/>
* A math video to prepare you for step #1: <https://www.youtube.com/watch?v=9aKIUel8nuA> (please refer to the practice problem in the official HOSA guide in the Skill VII section which reveals that the math is mainly dealing with percents and subtraction)
* <https://www.youtube.com/watch?v=WGLivRvsh5w> (how to use a serological pipette)
* <https://www.youtube.com/watch?v=qorl6rKLmRs> (how to use a volumetric pipette)

**Books:**

Estridge and Reynolds. Basic Clinical Laboratory Techniques. Cengage

Learning. Latest edition.

Daugherty, Ellyn. Biotechnology: Science for the New Millennium, Paradigm

Publishing. First edition revised.