

Why take the Biotech Workshop?

The biotech training will provide instruction and hands-on training for 5 critical lab technician skills. You will be given a chance to earn microcredentials that can be showcased on your resume which gives you a competitive advantage for biotech careers. Microcredentials are earned through hands-on testing that occurs on the last scheduled day of training.

Lab technicians must be good at: following written instructions, learning how to operate lab machines, and wearing personal protective equipment. Lab technician jobs existing in food production, animal health, human health, and biomanufacturing companies (to name a few).

The biotech workshop focuses on five critical lab technician skills:

Safety (identify potential safety hazards)

Small Volume Metrology (using tools to dispense very small volumes of liquid)

Documentation & SOP (following laboratory instructions and recording data)

Aseptic technique (moving samples from one vessel to another without contaminating them with bacteria, aka sterile transfer)

Numeracy (addition, subtraction, multiplication, or division of numbers; interpret scientific notation, understand units like "mL")

	 <ul style="list-style-type: none"> •Utilize information on an MSDS sheet. •List safety steps needed to work in a particular lab environment. •Describe safety hazards when viewing a lab bench scenario.
	 <ul style="list-style-type: none"> •Prepare the lab bench surface for aseptic benchwork. •Handle instruments such as bunsen burner, striker, inoculating loop, test tubes, serological pipet, pipet pump, and agar plates appropriately. •Aseptically transfer a bacterial colony to a culture tube with broth media. •Aseptically transfer a volume of sterile broth to a new sterile tube.
	 <ul style="list-style-type: none"> •Determine the appropriate measurement tool to use when given a volume to deliver. •Properly use a serological or micropipette to deliver a specified volume. •Accurately and precisely deliver a specified volume.
	 <ul style="list-style-type: none"> •Evaluate an SOP for errors •Follow an SOP to complete a procedure. •Accurately complete a batch record
	 <ul style="list-style-type: none"> •Recognize reasonableness of numbers in laboratory calculation results. •Convert units within the metric system. •Order numbers based on size. •Write and record numbers accurately.

Careers: *a-day-in-the-life*

- Specimen technician-
<https://www.youtube.com/watch?v=mySoGfelpWM>
<https://www.tiktok.com/@treia.j/video/7306699279412858143>
- Quality Control Lab Tech (food)-
<https://www.tiktok.com/@kelseytymm/video/7246619520536677637>
- Steps in Biomanufacturing-
<https://youtu.be/wFoYp8vbzkw?t=184>
- Cell Culture Technician-
<https://www.youtube.com/watch?v=WfQ5tRaacnw>
- Formulation Technician-
<https://www.youtube.com/watch?v=cz5CrJGbmlyadsf>
<https://www.youtube.com/watch?v=GCLpekr2qqU>