

EMPLOYABILITY PROFILE

Laboratory Science



Bloodborne Pathogen. Demonstrates proper use of PPE. Disposes of sharps and biohazardous waste

correctly. Prepares a 10% bleach solution. Explains the chain and routes of infection.

Industry Based Skill Standards

Proficiency Definitions

NA = Not Applicable 1 = Developing 2 = Basic 3 = Proficient 4 = Mastery

	9th	10th	11th	12th		9th	10th	11th	12th
Demonstrates knowledge of health careers					Use of medical terminology				1
Demonstrates an awareness of a variety of health careers, use responsibilities and scope of practice for these careers. Has developed a career plan to move forward with education or	identified		interest	and has	Recognizes and uses medical terms in a patient care setting with other h Defines new words by utilizing knowledge of roots, prefixes and suffixes		re profe	ssionals.	
Body as an interconnected system					Communication with patients, families and caregivers				
Demonstrates knowledge of the human body and its intercon and functions of organs and organ systems and is able to e maintain homeostasis.				-	Communicates with health care professionals, patients, and caregivers be express ideas and obtain information. Uses appropriate vocabulary to s demonstrates active listening skills.				ng to
Diagnosis of medical conditions					Medical professions				
Identifies potential health issues by assessing symptoms or he patients, their families and/or caregivers. Utilizes content knidentify body systems affected and possible diagnosis.				•	Describes responsibilities and training for multiple health professionals, professions and subspecialities of medicine. Is able to recommend special patients.		-		
Uses a teamwork approach to patient care					Anatomy and physiology				
Addresses patient complaints by gathering information and knowledge. Is aware of basic diagnostic tests, treatments ar disease, kidney disease, sickle cell anemia, cancer, and infect	nd follow u	ıp for dia		eart	Is able to identify the structures of each body system, describe their mic anatomy, and identify their functions. Can locate structures using anatom				
Identifies and treats infectious disease					Laboratory skills				
Uses patient information and laboratory tests to isolate the treatments for infection and appropriate follow up, and how the spread of infection to others.					Demonstrates the ability to properly use a variety of lab tools, including electrophoresis and PCR.	pipettes	s, centrif	uge, gel	
Social, legal and ethical issues					Scientific funding and grant proposals				
Is aware of state and federal patient privacy regulations. De issues that might be encountered in the healthcare setting a solutions.					Describes the role of grants in scientific research. Can write, read and int proposal.	erpret a	scientif	ic grant	
Knowledge of health care system					Scientific investigations				
Demonstrates knowledge of how members of the patient ca together to prevent and treat disease	re team ar	nd organi	zations v	work	Can design a valid scientific experiment using the scientific method whill participant bias. Is able to interpret other scientific investigations and as		-		
Can access current scientific research					Legal/Ethical Responsibilities				
Demonstrates knowledge of research process and knows ho the form of journal articles and guidance from professional of			ic knowl	edge in	Defines informed consent. Explains patient confidentiality/HIPAA, protection privacy. Defines standard of care. Demonstrates characteristics of profe			-	d
Laboratory Science					Works as a productive member of the healthcare team				
Describes organizational structure of the clinical laboratory a Defines responsibilities, educational and credentialing requir					Actively participates as a member of a healthcare team while recognizing skills and abilities. Adds to the collective value of the team, and invigoral collective efforts and goals.			-	·s
Clinical Laboratory					Infection control practices				
					Demonstrates proper handwashing and glove removal. Identifies steps t	o avoid	transmis	sion of	

Identifies departments within the clinical laboratory and pathology and commonly performed

tests in the various departments.

	9th	10th	11th	12th
Specimen collection				
Identifies and understands components of vacuum tube system, types Understands the importance of the "order of draw". Describe correct identification and specimen labeling. Understands the difference and whole blood, plasma, urine and other body fluids.	and accu	rate patie	ent	
Customer service skills				
Demonstrates effective communication skills verbally, non-verbally problem solving techniques with workplace conflicts. Demonstrates and compassion with patients.			emonstra Ils, empa	
Data entry				
Completes a patient requisition. Accurately enters patient demograph information.	nics, insur	ance, tes	t and diag	gnosis
Compound microscope				
Demonstrates correct use and focusing techniques. Demonstrates promicroscope.	per care	and stora	ige of	
Specimen processing				
Can safely operate a centrifuge. Understands time constraints of spec specimen processing, labeling, and aliquoting of samples.	imens. D	emonstra	ates prop	er
Urinalysis				
Performs gross, chemical, and microscopic examination of urine. Can	perform a	and result	t a urine I	HCG test
Circulatory system				
Describes the structure and function of the circulatory system, including tissue, and heart.	ng vessels	, blood a	s a liquid	
Hematology				
Identifies proper specimens for testing. Understands the role of coaguily blood count in assessing patient health. Can make and stain a blood si types of white blood cells. Is familiar with red blood cell, white blood	lide. Can	identify 5	differen	
Immunohematology				
Performs ABP/Rh blood typing procedure.			•	
Microbiology				
Demonstrates proper streaking technique of culture media. Can prepararious bacteria shapes and gram reactions. Can perform and result restreptococcus.				fy
Chemistry				
Can perform basic chemistry panels utilizing point of care instrumenta importance of reference values and has a knowledge of quality contro			ith the	
Maintain/promote a safe laboratory environment				
Identifies key aspects of biological, chemical, and fire safety. Interpret NFPA hazard rating labels.	s SDS, GH	IS chemic	cal labelin	g and

College Credits Attained			
Anatomy & Physiology I with Lab			
Anatomy & Physiology I with Lab			
Physics I with Lab			
Physics II with Lab*			
Introductory Biology with Lab*			
Introductory Biology with Lab*			
Calculus I*			
SUNY Broome CLT110			
SUNY Broome CLT110			
SUNY OCC			
SUNY OCC			
SUNY OCC			

^{*}Based on student interest

Industry Certifications Attained	✓
(AHA) Health Care Provider 1st Aid CPR	
OSHA Bloodborne Pathogen/Infection Control	
UPSTATE: Child Life 101	
Phlebotomy	