

Les	sson	Lesson Objectives
place	Readine	ss Skills-Technology Knowledge and Skills
Те	chnolog	y Basics
		Identify the skills needed to work in a technological environment.
		Summarize how technology is transforming the workplace.
Со	omputer	Technology and Applications
		Describe business uses of the Internet.
		Describe copyright and other laws that affect how we use technology.
		Name types of computer programs commonly used in business and explain their uses.
Usi	sing Your	Time Effectively
		Create a schedule that will help you accomplish tasks on time.
		Explain how to prioritize your work.
		Identify strategies for managing your time effectively.
th Scie	nce Path	iways and Careers
Stu	udying H	ealth Science
		Describe techniques for studying health science information.
		Differentiate between health science and health care.
		Explain fields of study that are important to health science.
Eve	olution o	of the Health Science Industry
		Compare and contrast modern medical practice with ancient ideas related to health.
		Describe the major developments of healthcare history from ancient times until the present day.
		Describe the recent evolution of the healthcare industry.
Dia	agnostic	Pathways and Careers
		Describe the characteristics of a diagnostic health science career.
		Identify specialized trainings and certifications common in diagnostic careers.
		Identify the responsibilities of various diagnostic health science careers.
The	erapeut	ic Pathways and Careers
		Describe the characteristics of a therapeutic health science career.
		Identify specialized trainings and certifications common in therapeutic careers.
		Identify the responsibilities of various therapeutic health science careers.
He	ealth Info	ormatics Pathways and Careers
		Describe the characteristics of a health informatics health science career.
		Identify specialized trainings and certifications common in health informatics careers.
		Identify the responsibilities of various health informatics health science careers.



Unit	Lesson	Lesson Objectives	
	Support	Services Pathways and Careers	
		Describe the characteristics of a support services health science career.	
		Identify specialized trainings and certifications common in biotechnology development and research careers.	
		Identify the responsibilities of various support services health science careers.	
	Biotechn	ology Development and Research Pathways and Careers	
		Describe the characteristics of biotechnology research and development health science careers.	
		Identify specialized trainings and certifications common in biotechnology research and development careers.	
		Identify the responsibilities of various biotechnology research and development health science careers.	
ursuii	ng Health S	cience Careers	
	Career Se	elf-Assessment	
		Analyze personal goals and career interests.	
		Identify ways to find information about health science careers.	
	Certificat	ion	
		Discuss laws which mandate certification requirements for employment in the healthcare industry.	
		Explain the role and importance of certifications and licensure in the healthcare profession.	
		Identify the government and professional organizations which regulate the credentialing and licensure process.	
	Planning	for Career Requirements	
		Explain the process for acquiring necessary certification, licensure, and registration for a health science career.	
		Identify the credentialing processes necessary for healthcare careers, including certification, licensure, and registration.	
	Career P	ortfolio and Resume	
		Describe the role of references and work samples.	
		Identify documentation necessary for a job search, including career portfolios and resumes.	
		Identify the components and traits of a cover letter.	
		Identify the components and traits of a professional résumé.	
	Job Hunt	ing	
		Explain the importance of self representation skills in career fields.	
		Identify personal traits or attitudes desirable in a member of the healthcare team.	
		Identify ways to find out about job opportunities.	
		Interpret job advertisements.	
	Professio	nalism	
		Identify personal qualities that contribute to professionalism.	
		Describe strategies for managing resources.	
		Describe strategies for managing time and tasks.	
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Unit	Lesson	Lesson Objectives	
	Professio	nal Development	
		Explain how to retain and advance employment in a rapidly changing workplace.	
		Explain the importance of ongoing professional development in the healthcare industry.	
		Identify methods of attaining ongoing training in the healthcare industry.	
Ethics a	and the Lav	I	
	Ethics		
		Define the concepts of ethics and integrity and explain how they are related.	
		Describe personal, professional, and organizational ethics.	
		Examine current ethical issues related to the healthcare industry.	
		Explain how and why regulations are needed to promote ethical behavior in the health science industry.	
		Explain the purpose of Professional Standards of Care.	
	Patient B	ill of Rights	
		Explain how federal legislation and activity has defined, codified, and protected the rights of patients.	
		Explain the concepts of the Patient's Bill of Rights.	
		Explain the importance of the Patient's Bill of Rights.	
	Medical B	thics and Advance Directives	
		Explain the conflict between beneficence and autonomy.	
		Explain the importance of legal contracts in healthcare delivery, especially in regards to advance directives.	
		Explain the relationship between the concept of autonomy and the doctrine of informed consent.	
	Confiden	tiality	
		Define confidentiality.	
		Define privacy and privileged communication.	
		Explain how the Health Insurance Portability and Accountability Act (HIPAA) helps protect patient confidentiality.	
		Explain the importance of confidentiality in health care.	
	Workplac	e Liability and Malpractice	
		Examine the effect of liability on employers and employees in the health science industry.	
		Explain practices that could result in malpractice, liability and/or negligence.	
		Explain the responsibilities of healthcare workers to report illegal or unethical healthcare practices.	
		Recognize the limits of authority and responsibility of healthcare workers.	
lealth	care Systen	15	
	Healthca	re Facilities	
		Differentiate between for-profit, non-profit, and government run healthcare facilities. Identify common types of healthcare facilities.	
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Unit	Lesson	Lesson Objectives
	Health Ir	surance
		Define health insurance.
		Identify and differentiate between common types of health insurance plans.
		Identify various health insurance plan components.
	Health C	are and Society
		Analyze the role of the healthcare industry in public health issues.
		Examine community and social issues related to an health science industry.
		Examine labor issues related to an health science industry.
		Explain how the practice of lobbying affects the healthcare industry.
	Health C	are as a Business
		Describe the impact of business on healthcare environments.
		Describe the role of financial responsibility within the health science industry.
		Describe the role of management within a health science industry.
		Describe the role of planning within the health science industry.
	Healthca	re Providers and Consumers
		Describe the role of professionals in a variety of healthcare delivery systems.
		Differentiate among the types of medical care delivery systems.
		Identify services provided in a variety of healthcare delivery systems.
		Identify the roles and responsibilities of the consumer within the healthcare system.
	Healthca	re Trends
		Analyze current trends in healthcare delivery systems.
		Examine the impact of the Internet on the healthcare industry and on the individual consumer.
		Explain how healthcare services impact the economy.
Patien	nt Care	
	Patient C	Care Approaches
		Describe ways to provide patient care that is respectful of ethnic, religious, cultural, and personal preferences.
		Explain why it is important for healthcare professionals to be aware of diverse characteristics in patients.
	Patient C	Communication
		Describe ways in which public relations skills and effective communication with patients can provide customer satisfaction.
		Identify the principles of communication used in establishing relationships between healthcare workers and patients.
	Patient E	ducation
		Describe methods of explaining technical information at levels accessible to a variety of patients.
		Explain the importance of patient/client education in health care.

Identify the common types of information that a patient or client may be interested in.



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	Handling	client Information
		Describe the legal and professional standards for accessing, reporting, and documenting client health information.
		Describe the rationale for policies and procedures for handling personal information.
		Explain the process and importance of establishing patient identification and medical history.
	Medical	Records
		Describe the legal implications of medical records.
		Explain the purpose of medical records.
		Identify the components of the medical record.
	Body Me	echanics and Ergonomics for Patients
		Explain the importance of body mechanics and ergonomics in a healthcare setting.
		Identify and analyze the principles of body mechanics and movements.
		Identify the basic medical exam positions.
Health	and Welln	ess
	Wellnes	s and Life Changes
		Describe the effects of aging on physical health and wellness.
		Examine various concepts of dealing with dying, death, and grief.
	Diet and	Wellness
		Describe dietary guidelines and explain basic dietary management.
		Explain how the body achieves nutrition through the digestion and metabolism of food.
		Identify the nutrients necessary for good achieving health and wellness.
	Food Saf	ety and Handling
		Describe food safety laws and regulations in the US.
		Describe international food safety practices.
		Identify principles of safe food handling.
	Diversity	r in Health Care
		Define holistic care.
		Describe the relationship between culture, ethnicity, and race.
		Explain the importance of understanding cultural diversity in health care.
		Identify various factors that interfere with the acceptance of cultural diversity.
Safety	in the Wor	kplace
	Hazards	in Health Care
		Describe safety procedures and how they serve to keep healthcare environments safe
		Describe the Occupational Safety and Health Association (OSHA) and Centers for Disease Control (CDC) policies and procedures for handling and
		disposing of infectious and hazardous materials
		Identify common hazards and hazardous materials found in healthcare settings



Unit	Lesson	Lesson Objectives
	Safety Po	plicies and Procedures
		Define and differentiate between policies, procedures, and protocols
		Explain the importance of complying with institutional policies and procedures in order to maintain a safe and clean work environment
		Identify common safety practices in all aspects of the health science industry
		Justify the rationale behind protocols and safety procedures
	Maintain	ing a Safe Work Environment
		Analyze the role and the responsibilities of the healthcare provider (student) in the classroom, laboratory, and various workplace settings in an
		emergency situation Explain the importance of a safe work environment
		Identify and practice security procedures for medical supplies and equipment
		Identify safety precautions and practices that can help maintain safety in healthcare environments
		Recognize Materials Safety Data Sheets (MSDS) and comply with safety signs, symbols and labels
	Disaster	Planning
		Explain proper disaster preparedness procedures for a variety of emergency situations
		Identify items found in a basic emergency kit
		Identify the components of disaster planning
	Managin	g Emergency Scenarios
		Describe principles of emergency management
		Explain the components of fire safety and dealing with fires
		Identify the four stages of emergency management
First A		
	Infection	Control and Asepsis
		Differentiate between cleaning, disinfecting, and sterilizing
		Evaluate the need for asepsis in the healthcare environment
		Explain the principles of infection control and asepsis
		Explain the steps and purpose of medical aseptic techniques
	Chain of	Infection
		Describe the purpose for and identify various types of isolation techniques
		Explain how to destroy or control the spread of infections
		Explain the chain of transmission of infection
		Identify common hospital-acquired infections



it	Lesson	Lesson Objectives
	First Aid a	and Emergency Response
		Describe legal parameters relating to the administration of emergency care
		Explain how the use of personal protective equipment can help a first responder apply life support techniques safely
		Identify basic life support equipment
		Identify basic life support techniques
		Identify personal protective equipment
	Emergend	cy Care: Falls and Poisoning
		Describe the causes, symptoms, and treatments of medical emergencies related to falls
		Describe the causes, symptoms, and treatments of medical emergencies related to poison and adverse drug reactions
		Explain how to respond to falls and poisoning cases
	Emergeno	cy Care: Trauma and Shock
		Describe the causes, symptoms, and treatments of medical emergencies related to shock
		Describe the causes, symptoms, and treatments of medical emergencies related to trauma
		Explain why burns are considered a type of trauma
	Emergeno	cy Care: Seizures and Strokes
		Describe the causes, symptoms, and treatments of medical emergencies related to seizures
		Describe the causes, symptoms, and treatments of medical emergencies related to strokes.
		Explain how to respond to seizures and strokes
nu	inication, L	eadership, and Teamwork
	Communi	ication Fundamentals
		Define and differentiate between verbal and non-verbal communication
		Define communication, and analyze the process of communication
		Distinguish between effective and ineffective communication
		Explain the appropriate response to verbal and non-verbal cues
	Teamwor	'k
		Explain basic concepts of teamwork, and analyze different types of teams
		Explain the necessity of teamwork in providing quality healthcare services
		Identify the collaborative role of team members between systems to deliver quality health care
		Identify the common roles and responsibilities of healthcare team members
	Conflict R	lesolution
		Define conflict resolution
		Employ critical thinking and interpersonal skills to resolve conflicts
		Identify effective techniques for resolving conflict



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	Student (- Drganizations	
		Explain how student organizations help foster leadership	
		Explain the purpose of Career and Technical Student Organizations.	
		Identify the benefits of belonging to Health Occupations Students of America (HOSA)	
		Identify the purposes and goals of a student organization	
ealth	Science Ca	reer Skills	
	Listening	and Speaking	
		Identify effective speaking and listening skills.	
		Organize and develop ideas into accurate verbal reports.	
		Plan and prepare effective oral presentations.	
	Reading		
		Define plagiarism and learn how to avoid it through proper documentation skills	
		Demonstrate effective reading and writing skills	
		Identify effective reading and writing skills	
		Locate, organize and reference written information from various sources	
		Select and employ appropriate communication concepts and strategies to enhance oral and written communication in the workplace	
	Math Ski	lls	
		Convert units between systems of measurement, including metric and traditional units, and regular time to 24-hour time	
		Demonstrate knowledge of common arithmetic operations in health care	
		Make estimates and approximations and judge the reasonableness of the result	
	Calculati	ng Medication Dosages	
		Identify the main systems of measurement for medication	
		Perform simple calculations related to measuring and converting doses of medication	
echno	ology in Hea	alth Science	
	Using Teo	chnology in Health Care	
		Define terms and demonstrate basic computer skills	
		Describe the uses of computers in health care	
		Employ collaborative/groupware applications to facilitate group work	
		Use personal information management (PIM) applications to increase workplace efficiency	
	Informat	ion Technology	
		Define information technology and informatics	
		Explain necessary information technology skills	
		Identify healthcare technology equipment used in diagnostic, therapeutic, health informatics, support services, and biotechnology research and	l
		development systems, and relate findings to identified societal risk factors	
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Unit Le	sson	Lesson Objectives
Us	e and S	Safety of the Internet
		Demonstrate an understanding of Internet use and security issues
		Demonstrate and differentiate between appropriate and inappropriate use of telecommunications technology
		Identify Internet safety issues and procedures for complying with acceptable use standards
Те	chnical	Skills
		Examine principles of technology that underlie the health and medical science industry
		Identify the technical skills required of workers in the health and medical science industry
		Interpret technical information related to the health science industry
Us	ing Me	dical Equipment
		Demonstrate the safe use of medical equipment
		Explain and summarize the process for reporting equipment or technology malfunctions
		Explain radiographic safety
		Identify various types of medical equipment
Bio	otechno	ology
		Define biotechnology, and explain biotechnological concepts
		Describe the impact of biotechnology on preventive health care
		Describe the role biotechnology plays in medical forensics used in criminal investigations
		Discuss the ethics of biotechnology and other technological advances
Sp	ecimen	n Preparation and Handling
		Analyze the process for examining cells to determine quantity and/or to look for abnormal cells in blood and other body fluids and tissues
		Analyze the process for studying body fluids and cells for bacteria, parasites, and other microorganisms
		Describe specimen preparation and handling
La	borator	ry Procedure
		Explain how to assess lab findings using automated equipment and computerized instruments, microscopes, cell counters, and/or other sophisticated
		laboratory equipment
		Explain how to document results of laboratory findings
		Explain how to relay lab results to physicians
		atomy and Physiology, Part 1
Or	rganizat	tion of the Body
		Analyze the basic structural organization of the body
		Analyze the relationship of the levels of structural organization of the body
		Describe the major systems of the body
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Unit	Lesson	Lesson Objectives
	Body Cav	ities
		Identify body cavities
		Identify the organs that are housed in various body cavities
		Use the proper terminology to identify body cavities
	Planes of	the Body
		Describe anatomical planes on the body and explain their use when studying anatomy
		Identify types of planes of the body
		Use the proper terminology to identify the planes of the body
	The Chem	nistry of Life
		Analyze the chemical processes that maintain life
		Explain the chemical composition of the human body
		Identify the chemical elements of the body
	Cells	
		Analyze the function of different cell structures
		Analyze the structure of cells
		Describe cells as the building blocks of human life
		Explain how the condition of cells can be indicators of health
	Tissue	
		Analyze the relationship between the structure and function of cells and tissues
		Explain the location and functions of each type of tissue
		List the four main types of tissues
	Membrar	nes and Glands
		Analyze the functions of membranes and glands
		Analyze the structure of membranes and glands
		Define membranes and glands
		Identify types of membranes and glands
Inder	standing An	atomy and Physiology, Part 2
	The Integ	umentary System
		Analyze the functions of the integumentary system
		Analyze the structure of the integumentary system
		Describe the three layers of skin
		Explain how the integumentary system helps achieve homeostasis



it	Lesson	Lesson Objectives	
	The Skele	etal System	
		Analyze the functions of the skeletal system	
		Describe the components of the skeletal system, including connective tissues	
		Identify the major organs of the skeletal system	
	The Muse	scular System	
		Analyze the structure and function of muscles in the muscular system	
		Explain the function of connective tissue in the muscular system	
		Explain the functions of the muscular system	
		Identify the different muscles of the muscular system	
		Identify the types of connective tissue in the muscular system	
	Blood		
		Analyze the functions of blood	
		Analyze the structure and function of blood vessels	
		Explain how blood circulates through the human body	
		Identify the components of blood	
	The Hear	rt	
		Analyze the function of the human heart	
		Analyze the structures of the human heart	
		Describe the role of the heart in circulation	
	The Cardi	liovascular System	
		Analyze the functions of the cardiovascular system	
		Analyze the structure of the cardiovascular system and its components, including the heart, blood, and blood vessels	
		Explain the important role the respiratory system plays in the cardiovascular system	
	The Lymp	phatic System	
		Analyze the functions of the lymphatic system	
		Analyze the structure of the lymphatic system	
		Define lymph nodes and identify lymphatic organs	
		Explain why the lymphatic system is considered part of the circulatory system	
	The Imm	nune System	
		Analyze the structure and functions of the immune system	
		Define and describe immunizations	
		Explain how the lymphatic system is related to immunity	
		Identify the different types of immunity and immune responses	
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L	esson	Lesson Objectives
rstar	nding An	natomy and Physiology, Part 3
Т	The Resp	iratory System
		Analyze the structure and functions of the respiratory system
		Define and describe ventilation
		Describe the functions of the lungs and capillaries in introducing oxygen into the human body
		Explain the relationship between the respiratory system and the circulatory system
Т	The Diges	stive System
		Analyze the functions of the digestive system
		Describe the upper and lower gastrointestinal tracts
		Explain the digestive process
т	Гhe Endo	ocrine System
		Analyze life span changes that are controlled by the endocrine system
		Analyze the structure and functions of the endocrine system
		Describe the role of hormones in the endocrine system
		Identify some hormones that are secreted by organs and glands
т	The Repr	oductive System
		Analyze the structure and functions of the female reproductive system
		Analyze the structure and functions of the male reproductive system
		Define reproductive system
Т	The Nerv	ous System
		Analyze the structure and functions of the central nervous system
		Analyze the structure and functions of the peripheral nervous system
		Define neurons and glial cells
		Explain how the peripheral and central nervous systems function together
Т	The Urina	ary System
		Analyze the structure and function of the urinary system
		Describe the role of the kidneys
		Explain urine production and analyze factors that can impact it
Т	The Sens	ory System
		Analyze the functions of the sensory system in relation to the nervous system
		Define stimulus
		Identify the five human senses
		Identify the human sensory receptors



Unit Lesson Lesson Objectives

Basic Health Care Terminology

Basic Medical Terminology

Use anatomical terminology to describe the parts and areas of the body

Use anatomical terminology to describe the relationships between parts of the body

Basic Medical Prefixes, Suffixes, and Root Words

Analyze how common roots, prefixes, and suffixes are combined to form medical terms

Identify common roots, prefixes, and suffixes used in health science fields, including common anatomical structures

Basic Medical Abbreviations

Explain why medical terminology is often abbreviated in the healthcare industry

Identify common abbreviations for diseases and disorders

Identify common patient status abbreviations

Identify common pharmacy abbreviations