Ohio CTE

Health Science Career Field (2021): Nutrition & Wellness (072015)

Human Body System: Learners will describe the various anatomy, physiology, and pathophysiology associated with body systems and alterations related to the normal developmental process, obtain a health history, perform an evaluation of the body systems, and document using medical terminology. 2

1 **Human Anatomy, Physiology, and Pathophysiology: Describe the various human body systems, alterations related to the normal developmental process and possible dysfunctions.** 2.1

- 7 Describe the structures and functions of the musculoskeletal system. 2.1.7

2 **Evaluate Body Systems: Assess the biopsychosocial state of the patient and document using medical terminology.** 2.2

- 1 Provide privacy and demonstrate sensitivity for diverse populations. 2.2.1
- 2 Contact interpretive services for non-English speaking and English Language Learners (ELL). 2.2.2
- 3 Use developmentally appropriate language to systematically review disease processes related to each body system. 2.2.3

3 **Medical Terminology: Decipher medical terms through word origin and structure with an emphasis on derivation, meaning, pronunciation, and spelling.** 2.3

- 1 Build and decipher medical term meanings by identifying and using word elements (e.g., word roots, prefixes, suffixes, and combining forms). 2.3.1
- 2 Apply the rules used to build singular and plural forms of medical terminology derived from the Greek and Latin language. 2.3.2
- 3 Use diagnostic, symptomatic, and procedural terms to read and interpret various medical reports. 2.3.3
- 4 Use abbreviations and symbols to identify anatomical, physiological and pathological classifications and the associated medical specialties and procedures. 2.3.4
- 5 Communicate medical instructions and prepare medical documents using medical terminology. 2.3.5

Therapeutic Interventions: Learners wi im inc

1 **Environmental Interventions: Create and maintain a safe, sterile, efficient, age-appropriate care environment.** 3.1

Skip to main content

outcome and quality of life throughout the lifespan within their scope of practice. 3

1 Use standard precaution guidelines, recommended by the Centers for Disease Control and Prevention, for reducing the risk of transmission of blood-borne and other pathogens. 3.1.1

2 Maintain individuals' rights, respect individual's choices and describe informed consent. 3.1.2

3 Describe confidentiality guidelines in the Health Insurance Portability and Accountability Act (HIPAA). 3.1.3

---

2 **Health Promotion Interventions: Identify and communicate health promotion and wellness to individuals, support systems, and communities.** 3.2

1 Describe the national and state health agenda for wellness. 3.2.1

2 Measure and classify body composition, neuromuscular flexibility, agility, balance, coordination and proprioception. 3.2.2

3 Measure and classify an individual's cardiorespiratory fitness, muscular strength, endurance and power. 3.2.3

4 Identify the needs of the individual, support system, and community related to physical, biological, technological, spiritual, religious, social and behavioral wellness. 3.2.4

5 Communicate relevant information to promote, maintain and restore overall wellness. 3.2.5

6 Communicate the medical benefits and risks associated with immunizations and other preventative care across the life span. 3.2.6

7 Identify the components of wellness. 3.2.7

8 Communicate the relationship between dimensions of health and wellness. 3.2.8

---

3 **Pharmaceutical Interventions: Prepare, administer, store and document medications, reactions and outcomes according to laws, regulations and authorized health care provider orders and protocols.** 3.3

14 Identify fluid and electrolyte imbalances, side-effects and adverse reactions. 3.3.14

---

5 **Nutritional Interventions: Identify nutritional needs and communicate information to the individual and support system.** 3.5

1 Describe the role and effects of carbohydrates, proteins, fats, electrolytes, minerals, vitamins and water in body systems. 3.5.1

2 Calculate the energy of carbohydrates, proteins and fats. 3.5.2

3 Describe nutritional supplements and ergogenic aids and potential effects. 3.5.3

4 Calculate caloric needs of the individual and refer the individual to nutritional resources for optimal health and performance. 3.5.4

5 Provide diet and hydration guidelines to maintain optimal health. 3.5.5

Skip to main content

6 Identify food and drug interactions. 3.5.6

7 Describe types of allergic reactions to foods and food intolerances. 3.5.7

8 Describe regional, cultural and religious food preferences. 3.5.8

9 Monitor nutritional intake and output. 3.5.9

10 Measure and classify based on anthropometric measurements. 3.5.10

6 Exercise and Rehabilitative Intervention: Evaluate, define and perform training, and document therapies to enhance mobility and muscle strength. 3.6

1 Complete a comprehensive fitness evaluation. 3.6.1

9 Fit ambulatory aids and perform gait training. 3.6.9

7 Dental Interventions: Assist in the application of dental and oral interventions and document with dental terminology and symbols. 3.7

1 Identify dental anatomy, surfaces, and tooth numbering systems. 3.7.1

2 Explain the relationship between oral health and nutritional factors related to dentistry. 3.7.2

Assistive Care: Learners demonstrate the skills and knowledge to provide personal assistive care for the activities of daily living to a variety of individuals across stages of development within their scope of practice. 4

1 Scope of Practice: Describe the roles and responsibilities of assistive personnel and identify the medical specialists who treat disorders of each body system. 4.1

5 Identify the medical specialists who treat disorders of each body system. 4.1.5

2 Therapeutic Communication and Interpersonal Skills: Demonstrate and document communication techniques and behaviors when communicating and interacting with individuals. 4.2

1 Interpret non-verbal communication, including gestures, posture, touch, facial expressions, eye contact, body movements, avoidance and appearance. 4.2.1

2 Describe the importance of maintaining an individual's personal space. 4.2.2

3 Identify the importance of empathy in interpersonal relationships and the need for kindness, patience and listening. 4.2.3

Health Information Management: Learners will demonstrate basic computer literacy, health information literacy and skills, confidentiality and privacy of health records, information security and basic skills in the use of electronic health records. 6

2 Confidentiality, Privacy and Security: Apply the fundamentals of confidentiality, privacy and security to communicate health/medical information accurately and within legal/regulatory bounds to other external entities. 6.2

2 Differentiate between types of evidence used in healthcare litigation, process of discovery and the permissible use of evidence in litigation, recognizing the elements of negligence and medical malpractice. 6.2.2

3 Interpret regulatory requirements, standards of practice, legal responsibility, limitations and implications of actions and describe the appropriate avenues for reporting incidences of malpractice or negligence. 6.2.3

4 Identify what constitutes the authorized access, release and use of personal health information. 6.2.4

5 Distinguish confidential and non-confidential information, and document and prioritize requests for personal health information according to privacy and confidentiality guidelines. 6.2.5