

# Grades 6, 7, 8

Adopted 2013

## HSF/Health Science Foundations

### **HSF1. Academic Foundations in Health Science: Students will apply the academic subject matter required for proficiency within their area.** HSF1

- a. Relate the knowledge of structures to the functions of the human body. HSF1.A
  - m. Determine the difference between tissues, organs, and systems of the human body. HSF1.A.4.M
  - m. Locate directional terms and cavities of the human body. HSF1.A.5.M
  - m. Describe the functions of each organ system. HSF1.A.6.M
- b. Identify diseases and disorders which affect the human body and related biomedical therapies. HSF1.B
  - m. Identify common diseases and disorders of the human body (i.e. influenza, heart disease, diabetes, cancer). HSF1.B.3.M
  - m. Describe healthcare treatments that promote recovery from human diseases and disorders. HSF1.B.4.M
- c. Use appropriate mathematical tools as they apply to the practice of healthcare. HSF1.C
  - m. Convert measurements between temperature scales, fractions and decimals and U.S. Standard and metric. HSF1.C.4.M
  - m. Create diagrams, charts, graphs and tables to communicate information. HSF1.C.5.M
  - m. Differentiate between Greenwich time and 24-hour clock. HSF1.C.6.M
- d. Use knowledge of life stages to interact effectively with patients, clients, and residents. HSF1.D
  - m. Distinguish between emotional, physical, intellectual, and social development. HSF1.D.4.M
  - m. Differentiate between growth and development as it applies to life stages. HSF1.D.5.M
  - m. Provide examples of ways in which life stages affect an individual's needs. HSF1.D.6.M

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**HSF2. Communications within Healthcare Settings: Students will apply various methods of giving and obtaining health care information and communicate effectively both orally and in writing.** HSF2

- a. Apply the concepts of effective verbal and nonverbal communication in the healthcare industry. HSF2.A
  - m. Role-play types of verbal and nonverbal communication between healthcare providers and patients. HSF2.A.6.M
  - m. Explore ways that barriers interfere with communication in the healthcare setting (i.e., physical disability, psychological barriers). HSF2.A.7.M
  - m. Differentiate between subjective and objective information for healthcare workers. HSF2.A.8.M
  - m. Describe the elements of healthcare communication using a sender-receiver model. HSF2.A.9.M
  - m. Identify appropriate speaking and active listening skills to communicate information in a healthcare setting. HSF2.A.10.M
- b. Utilize medical terminology appropriate to a specific health science occupation. HSF2.B
  - m. Analyze roots, prefixes and suffixes to determine correct meanings of medical words. HSF2.B.4.M
  - m. Identify medically relevant abbreviations. HSF2.B.5.M
  - m. Define medical terminology and abbreviations as related to illness or injury. HSF2.B.6.M
- c. Develop written communication skills to meet healthcare industry standards. HSF2.C
  - m. Identify elements of professional quality healthcare documents in print and electronic formats. HSF2.C.3.M
  - m. Collect, organize and record health observations using a chart format. HSF2.C.4.M

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**HSF3. Systems in Healthcare: Students will illustrate how a healthcare worker's role fits into a department, an organization, and the overall healthcare environment, identifying how key systems influence services performed and quality of care. HSF3**

- a. Delineate elements and examples of healthcare delivery systems focusing on funding sources, organizational mission and purpose and types of facilities and services. **HSF3.A**
  - m. Classify healthcare organizations as public, private, government or non-profit and describe the roles of workers. **HSF3.A.2.M**
  - m. Describe services provided by various types of healthcare facilities (public, private, government, non-profit). **HSF3.A.3.M**
- b. Explain the factors influencing healthcare delivery systems (aging populations, non-traditional gender roles, financing and culture). **HSF3.B**
  - m. Identify current factors influencing the healthcare delivery system. **HSF3.B.1.M**
- c. Describe the responsibilities of consumers within the healthcare system (respect rights of healthcare workers and other patients, responsible healthcare habits, becoming an educated advocate for yourself). **HSF3.C**
  - m. Distinguish between responsible and irresponsible consumer behavior within the healthcare delivery system. **HSF3.C.2.M**
- d. Explain the impact of emerging issues such as technology, epidemiology, bioethics and socioeconomics on healthcare delivery systems. **HSF3.D**
  - m. Describe emerging issues related to technology, epidemiology, bioethics and socioeconomics. **HSF3.D.1.M**
- e. Discuss common methods of payment for healthcare. **HSF3.E**
  - m. Describe ways people pay for health care services (i.e., government programs, private insurance, self-fund). **HSF3.E.2.M**
  - m. Explain insurance related terms (i.e. premium, deductible, co-insurance, co-payment). **HSF3.E.3.M**

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**HSF4. Employability Skills for Healthcare Workers: Students will demonstrate how employability skills enhance their employment opportunities and job satisfaction.** HSF4

- a. Demonstrate personal traits of healthcare professionals and positive work behaviors for retaining employment in the healthcare industry. HSF4.A
  - m. Define and list personal traits that might be possessed by people in the healthcare field. HSF4.A.4.M
  - m. Discuss possible implications of inappropriate dress and hygiene practices of healthcare workers. HSF4.A.5.M
  - m. List positive work behaviors for healthcare professionals. HSF4.A.6.M
  - m. Distinguish between appropriate behaviors in a social vs. professional healthcare setting. HSF4.A.7.M
- b. Examine healthcare opportunities to develop a quality career plan. HSF4.B
  - m. Explain how healthcare jobs are organized into career ladders. HSF4.B.5.M
  - m. Classify careers within the five health sciences career pathways. HSF4.B.6.M
  - m. Explain the progression of healthcare job titles achieved with increasing education and experience. HSF4.B.7.M
  - m. Match personal aptitudes with healthcare career opportunities to create a career goal. HSF4.B.8.M
- c. Demonstrate skills related to seeking and applying for employment to find and obtain a healthcare job. HSF4.C
  - m. Identify the steps needed to obtain employment in healthcare. HSF4.C.2.M
  - m. Interpret abbreviations and terminology used in healthcare job postings. HSF4.C.3.M
  - m. Differentiate between an academic portfolio and professional portfolio for healthcare workers. HSF4.C.4.M

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**HSF5. Legal Responsibilities of Healthcare Providers: Students will identify the legal responsibilities, limitations and implications of actions within the healthcare delivery setting, performing duties according to regulations, policies, laws and legislated rights of clients. HSF5**

- a. Interpret and evaluate legal responsibilities and implications in a variety of healthcare settings. HSF5.A
  - m. Demonstrate behavior that is consistent with personal values of a healthcare worker. HSF5.A.3.M
  - m. Compare and contrast personal values and personal legal responsibilities. HSF5.A.4.M
  - m. Discuss implications of illegal behaviors in communities. HSF5.A.5.M
- b. Examine and assess standards for Health Insurance Portability and Accountability Act (HIPAA). HSF5.B
  - m. Recognize situations in which confidentiality must be maintained in healthcare settings. HSF5.B.3.M
  - m. Describe appropriate individuals and procedures for sharing confidential information. HSF5.B.4.M
  - m. Describe legal guidelines and procedures for sharing patient information. HSF5.B.5.M
- c. Defend patient responsibilities and rights in the healthcare setting. HSF5.C
  - m. Formulate a list of personal and healthcare worker responsibilities. HSF5.C.2.M
- d. Abide by and support current laws governing worker rights and responsibilities. HSF5.D
  - m. Identify employment laws that govern child labor in the healthcare industry. HSF5.D.1.M

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**HSF6. Ethical Practices for Healthcare Environments: Students will apply accepted ethical practices with respect to cultural, social and ethic differences within the healthcare environment and perform quality healthcare delivery. HSF6**

- a. Develop practices within the school, community and healthcare setting that respect ethical boundaries. HSF6.A
  - m. Discuss the difference between legal behavior and ethical behavior. HSF6.A.4.M
  - m. Explain how medical treatment of others is influenced by ethical behavior. HSF6.A.5.M
  - m. Identify behaviors that reflect appropriate boundaries for various roles in healthcare. HSF6.A.6.M
  - m. Describe consequences of ethical and unethical behavior in healthcare settings. HSF6.A.7.M
- b. Demonstrate respect and appreciation for diversity of individuals within the healthcare setting. HSF6.B
  - m. Explain how diversity influences beliefs and behaviors about medical care. HSF6.B.4.M
  - m. Describe the role of respectful behavior in healthcare customer service. HSF6.B.5.M
  - m. Recognize ways to use different strengths to improve work outcomes in a healthcare setting. HSF6.B.6.M

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**HSF7. Safety within Healthcare Settings: Students will analyze the existing and potential hazards to clients, co-workers, and self, working to prevent injury or illness through safe work practices and follow health and safety policies and procedures.** HSF7

- a. Explain principles and practices of infection control in healthcare. HSF7.A
  - m. Identify five classes of microorganisms. HSF7.A.4.M
  - m. Identify modes of transmission for blood-borne pathogens. HSF7.A.5.M
  - m. Describe standard precautions in prevention of disease transmission. HSF7.A.6.M
- b. Describe personal safety procedures and equipment used in healthcare settings. HSF7.B
  - m. Demonstrate how to apply and remove safety gloves, safety glasses and gowns used in healthcare settings. HSF7.B.2.M
  - m. Identify proper body mechanics. HSF7.B.3.M
- c. Analyze environmental safety practices within the healthcare setting. HSF7.C
  - m. Categorize safe and unsafe situations in the healthcare environment. HSF7.C.2.M
  - m. Create environmental safety rules for healthcare setting. HSF7.C.3.M
- d. Discuss common safety hazards impacting the healthcare industry. HSF7.D
  - m. Explain purpose for healthcare signs, symbols, and labels related to safety. HSF7.D.3.M
  - m. Establish precautionary safety measures for responding to unsafe situations or hazardous materials. HSF7.D.4.M
- e. Examine emergency procedures and protocols within the healthcare setting. HSF7.E
  - m. Predict outcomes when healthcare fire prevention and safety practices are not followed. HSF7.E.3.M
  - m. Demonstrate responses to medical emergencies that keep self and others safe. HSF7.E.4.M
  - m. Define bioterrorism. HSF7.E.5.M

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**HSF8. Teamwork Skills for Healthcare Workers: Students will identify the roles and responsibilities of individual members as part of the healthcare team, including their ability to promote the delivery of quality healthcare, interacting effectively and sensitively with all members of the healthcare team.** HSF8

- a. Identify roles and responsibilities of healthcare team members. HSF8.A
  - m. Identify members of a healthcare team. HSF8.A.4.M
  - m. Recognize characteristics of effective healthcare teams. HSF8.A.5.M
  - m. Compare and contrast roles and responsibilities of various healthcare team members. HSF8.A.6.M
- b. Recognize characteristics of effective team relationships. HSF8.B
  - m. Practice methods for building positive team relationships needed in a healthcare setting. HSF8.B.4.M
  - m. Identify techniques for managing team conflict within a healthcare team. HSF8.B.5.M
  - m. Distinguish between effective and ineffective team relationships in healthcare. HSF8.B.6.M
- c. Demonstrate leadership skills to accomplish organizational goals in a healthcare setting as well as a local HOSA chapter. HSF8.C
  - m. Identify characteristics of effective and ineffective leaders in healthcare. HSF8.C.3.M
  - m. Identify personal leadership strengths and challenges related to health. HSF8.C.4.M
  - m. Participate in a school/community healthcare related activity. HSF8.C.5.M
  - m. Explore healthcare organizations in community/state/country/world. HSF8.C.6.M

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**HSF9. Health Maintenance Practices: Students will analyze the fundamentals of wellness and the prevention of disease processes, practicing preventive health behaviors among clients.** HSF9

- a. Apply health science concepts to identify behaviors that promote health and wellness. HSF9.A
  - m. Explain how personal hygiene affects wellness. HSF9.A.3.M
  - m. Describe short and long term benefits of healthy eating and regular physical activity. HSF9.A.4.M
  - m. Explain the benefits of adequate sleep in promoting health and wellness. HSF9.A.5.M
  - m. Identify indicators of intellectual, emotional, social, and physical health. HSF9.A.6.M
- b. Describe and apply strategies for the prevention of diseases including health screenings and examinations. HSF9.B
  - m. Explain the role of proper hand washing and personal etiquette as it relates to disease prevention. HSF9.B.3.M
  - m. Identify strategies for the prevention of diseases including health screenings and examinations. HSF9.B.4.M
  - m. Describe how the body fights germs and diseases naturally, with medicines, and through immunizations. HSF9.B.5.M
- c. Analyze complementary (alternative) health practices as they relate to wellness and disease prevention. HSF9.C
  - m. Identify complementary (alternative) health practices as they relate to wellness and disease prevention. HSF9.C.3.M
  - m. Describe situations that may benefit from professional alternative health practice services. HSF9.C.4.M

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**HSF10. Technical Skills: Students will apply technical skills common to each health science career pathway, demonstrating skills and knowledge as appropriate.** HSF10

- a. Apply diagnostic procedures for measuring and recording vital signs including the normal ranges. HSF10.A
  - m. Identify normal vital sign values. HSF10.A.4.M
  - m. Identify the body systems being assessed by each of the vital signs. HSF10.A.5.M
  - m. Identify the ways that vital sign information is gathered. HSF10.A.6.M
- b. Obtain training or certification in skills necessary to function as a healthcare professional. HSF10.B
  - m. Identify common choking hazards and age appropriate responses. HSF10.B.4.M
  - m. Obtain Basic Aid Training (BAT) through a certification agency. HSF10.B.5.M
  - m. Identify specific technical skills needed for particular healthcare careers. HSF10.B.6.M
- c. Apply standard precautions to prevent the spread of infection. HSF10.C
  - m. Practice hand hygiene procedures. HSF10.C.5.M
  - m. Practice respiratory hygiene and cough etiquette procedures. HSF10.C.6.M
  - m. Select personal protective equipment (PPE) appropriate to the situation. HSF10.C.7.M
  - m. Identify ways germs are spread from one person to another. HSF10.C.8.M
- d. Apply health informatics skills to maintain accurate patient records. HSF10.D
  - m. Organize information in chronological order. HSF10.D.4.M
  - m. Document in pen or using appropriate information technology. HSF10.D.5.M
  - m. Identify measurable data. HSF10.D.6.M

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**HSF11. Health Information Technology for Healthcare Applications: Students will use information technology applications required within all career specialties. They will demonstrate use as appropriate to healthcare applications.** HSF11

- a. Demonstrate Health Information Management knowledge and skills. HSF11.A
  - m. Identify questions that a healthcare provider would ask. HSF11.A.2.M
  - m. Recognize that healthcare records are legal documents. HSF11.A.3.M
- b. Support privacy and confidentiality of health information. HSF11.B
  - m. List examples of health information and individually identifying information that are protected by federal privacy law. HSF11.B.3.M
  - m. Identify possible consequences of sharing protected health information (PHI). HSF11.B.4.M
  - m. Role-play healthcare situations that require computer privacy for patient information. HSF11.B.5.M
- c. Apply basic computer literacy skills to health science occupations. HSF11.C
  - m. Apply computer concepts and terminology in order to use computers and other mobile devices for tracking personal health. HSF11.C.6.M
  - m. Develop accuracy in entering personal healthcare data. HSF11.C.7.M
  - m. Save, share, retrieve and organize healthcare information documents on electronic devices. HSF11.C.8.M
  - m. Identify uses, benefits and drawbacks of spell-check and other editing tools available in word processing applications. HSF11.C.9.M
  - m. Differentiate between personal communication styles and business-appropriate communication styles. HSF11.C.10.M
  - m. Identify domain name extensions of government, educational and business websites in evaluating reliability and bias of medical web-based resources. HSF11.C.11.M
  - m. Determine types of healthcare information that must be accessed through secure network portals. HSF11.C.12.M