Michigan CTE

Health Sciences/Allied Health/Health Sciences (2021)

Safety Practices

A1. Explain and implement infection control practices and procedures. A1

7. Demonstrate personal safety practices. 7

1 Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations. 7.2.1

2 Demonstrate principles of body mechanics during patient care. 7.2.2

3 Demonstrate and apply the use of personal protective equipment (PPE) 7.2.3

7. Explain infection control practices and procedures. 7

1 Explain principles of infection transmission. 7.1.1

2 Differentiate methods of controlling the spread and growth of pathogens. 7.1.2

7. Identify common safety hazards. 7

1 Observe all safety standards related to the occupational exposure to hazardous chemicals standard (safety data sheets [SDS]) 7.4.1

2 Comply with safety signs, symbols, and labels 7.4.2

7. Understand the existing and potential hazards to clients, co-workers and self. 7

1 Apply safety techniques in the work environment. 7.3.1

7. Use techniques to ensure environmental safety. 7

1 Apply safety techniques in the work environment. 7.3.1

1 Practice fire safety in a healthcare setting 7.5.1

2 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols) 7.5.2

7. Utilize knowledge of diseases and disorders to conduct health care role. 7

1 Explain principles of infection transmission. 7.1.1

2 Differentiate methods of controlling the spread and growth of pathogens. 7.1.2

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. Explain cultural, social and ethnic diversity as it applies to health care delivery. A10

6. Employ effective written communication techniques when responding to patient questions and concerns. 6

    1 Discuss religious and cultural values as they impact healthcare. 6.2.1

    2 Demonstrate respectful and empathetic treatment of ALL patients/clients. 6.2.2

6. Explain cultural, social and ethnic diversity as it applies to health care delivery. 6

    1 Discuss religious and cultural values as they impact healthcare. 6.2.1

    2 Demonstrate respectful and empathetic treatment of ALL patients/clients. 6.2.2

Safety Practices

A2. Demonstrate personal safety practices. A2

7. Demonstrate personal safety practices. 7

    1 Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations. 7.2.1

    2 Demonstrate principles of body mechanics during patient care. 7.2.2

    3 Demonstrate and apply the use of personal protective equipment (PPE) 7.2.3

7. Explain infection control practices and procedures. 7

    1 Explain principles of infection transmission. 7.1.1

    2 Differentiate methods of controlling the spread and growth of pathogens. 7.1.2

A3. Use techniques to ensure environmental safety. A3

7. Describe legal practices employed by health care workers. 7

    1 Apply standards for the safety, privacy and confidentiality of health information. 5.2.1

7. Explain infection control practices and procedures. 7

    1 Explain principles of infection transmission. 7.1.1

7. Identify common safety hazards. 7

    1 Observe all safety standards related to the occupational exposure to hazardous chemicals standard (safety data sheets [SDS]) 7.4.1

    2 Comply with safety signs, symbols, and labels 7.4.2

7. Use techniques to insure environmental safety. 7

    1 Apply safety techniques in the work environment. 7.3.1

    1 Practice fire safety in a healthcare setting 7.5.1

    2 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols) 7.5.2

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7. Utilize emergency procedures and protocols. 7

    2 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols) 7.5.2

7. Utilize knowledge of diseases and disorders to conduct health care role. 7

    1 Explain principles of infection transmission. 7.1.1

    2 Differentiate methods of controlling the spread and growth of pathogens. 7.1.2

A4. Identify and apply strategies to mitigate common safety hazards/safety protocols. A4

7. Demonstrate personal safety practices. 7

    2 Differentiate methods of controlling the spread and growth of pathogens. 7.1.2

    1 Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations. 7.2.1

    2 Demonstrate principles of body mechanics during patient care. 7.2.2

7. Explain infection control practices and procedures. 7

    1 Explain principles of infection transmission. 7.1.1

    2 Differentiate methods of controlling the spread and growth of pathogens. 7.1.2

    1 Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations. 7.2.1

7. Identify common safety hazards. 7

    1 Observe all safety standards related to the occupational exposure to hazardous chemicals standard (safety data sheets [SDS]) 7.4.1

    2 Comply with safety signs, symbols, and labels 7.4.2

7. Understand the existing and potential hazards to clients, co-workers and self. 7

    1 Explain principles of infection transmission. 7.1.1

7. Use techniques to insure environmental safety. 7

    1 Apply safety techniques in the work environment. 7.3.1

7. Utilize emergency procedures and protocols. 7

    1 Practice fire safety in a healthcare setting 7.5.1

    1 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols) 7.5.1

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7. Utilize knowledge of diseases and disorders to conduct health care role. 7

1 Explain principles of infection transmission. 7.1.1

2 Differentiate methods of controlling the spread and growth of pathogens. 7.1.2

Health Maintenance Practices

A5. Describe and promote healthy behaviors. A5

9. Describe healthy behaviors. 9

1 Promote behaviors of health and wellness. 9.1.1

2 Examine various aspects of behavioral health. 9.1.2

3 Describe strategies for prevention of disease 9.1.3

4 Investigate complementary and alternative health practices as they relate to wellness and disease prevention. 9.1.4

1 Discuss physical, mental, social and behavioral development and its impact on healthcare. 9.2.1

9. Utilize knowledge of diseases and disorders to conduct health care role. 9

3 Describe strategies for prevention of disease 9.1.3

4 Investigate complementary and alternative health practices as they relate to wellness and disease prevention. 9.1.4

1 Discuss physical, mental, social and behavioral development and its impact on healthcare. 9.2.1

Safety Practices

A6. Utilize emergency procedures and protocols. A6

7. Utilize emergency procedures and protocols. 7

1 Apply principles of basic emergency response in natural disasters and other emergencies (safe location, contact emergency personnel, follow facility protocols) 7.5.1

Technical Skills

A7. Obtain CPR/First Aid/ AED training or certification. A7

10. Not specifically identified in MI CTE Standards. 10

2 Obtain training or certification in AED, CPR, First Aid and FBAO. 10.1.2

Ethics

A8. Describe and follow legal and ethical boundaries in health care delivery. A8

6. Describe ethical practice as it applies to health care delivery. 6

1 Differentiate between ethical and legal issues impacting healthcare. 6.1.1

2 Identify ethical issues and their implications related to healthcare. 6.1.2

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Describe and follow legal and ethical boundaries in health care delivery. A8

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5. Describe legal and ethical boundaries in health care delivery. 5

1 Analyze legal responsibilities and implications of criminal law. 5.1.1

1 Apply standards for the safety, privacy and confidentiality of health information. 5.2.1

2 Describe advance directives. 5.2.2

3 Summarize the essential characteristics of a patient's basic rights within a healthcare setting. 5.2.3

4 Differentiate informed and implied consent. 5.2.4

5 Explain laws governing harassment. 5.2.5

6 Explain the scope of practice. 5.2.6

7 Utilize procedures for reporting activities and behaviors that affect the health, safety, and welfare of others (incident report). 5.2.7

5. Describe legal practices employed by health care workers. 5

1 Apply standards for the safety, privacy and confidentiality of health information. 5.2.1

2 Describe advance directives. 5.2.2

3 Summarize the essential characteristics of a patient's basic rights within a healthcare setting. 5.2.3

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5. Describe the legal implications affecting healthcare workers. 5

1 Analyze legal responsibilities and implications of criminal law. 5.1.1

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Ethics

A8. Describe and follow legal and ethical boundaries in health care delivery. A8

6. Describe the legal implications affecting healthcare workers. 6

2 Identify ethical issues and their implications related to healthcare. 6.1.2

1 Discuss religious and cultural values as they impact healthcare. 6.2.1

Legal Responsibilities

A8. Describe and follow legal and ethical boundaries in health care delivery. A8

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5. Utilize facility protocol and regulatory guidelines for collecting patient/client health care needs, strengths and problems. 5

1 Apply standards for the safety, privacy and confidentiality of health information. 5.2.1

2 Describe advance directives. 5.2.2

3 Summarize the essential characteristics of a patient's basic rights within a healthcare setting. 5.2.3

4 Differentiate informed and implied consent. 5.2.4

6 Explain the scope of practice. 5.2.6

7 Utilize procedures for reporting activities and behaviors that affect the health, safety, and welfare of others (incident report). 5.2.7

Ethics

A8. Describe and follow legal and ethical boundaries in health care delivery. A8

6. Utilize facility protocol and regulatory guidelines for collecting patient/client health care needs, strengths and problems. 6

1 Differentiate between ethical and legal issues impacting healthcare. 6.1.1

2 Demonstrate respectful and empathetic treatment of ALL patients/clients. 6.2.2

A9. Describe and follow ethical practice as it applies to health care delivery. A9

6. Describe ethical practice as it applies to health care delivery. 6

1 Differentiate between ethical and legal issues impacting healthcare. 6.1.1

2 Identify ethical issues and their implications related to healthcare. 6.1.2

Information Tech in Healthcare

B1. Employ communication strategies used in the delivery of quality health care. B1

11. Employ communication strategies used in the delivery of quality health care. 11

1 Identify components of an electronic health record (EHR) and/or electronic medical record (EMR). 11.1.1

2 Explore different types of health data collection tools. 11.1.2

3 Create electronic documentation that reflects timeliness, completeness, and accuracy. 11.1.3

4 Adhere to information systems policies, procedures, and regulations as required by national, state, and local entities. 11.1.4

Communications

B1. Employ communication strategies used in the delivery of quality health care. B1

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2. Employ effective oral communication techniques when responding to patient questions and concerns. 2

1 Model verbal and nonverbal therapeutic communication. 2.1.1

4 Interpret elements of communication using sender-message-receiver feedback model. 2.1.4

5 Modify communication to meet the needs of the patient/client and be appropriate to the situation. 2.1.5

2. Therapeutic services professionals will be able to explain planned procedures and goals to patients and other clients. They will use various strategies to respond to questions and concerns of patients and other clients. 2

2 Identify common barriers to communication. 2.1.2

3 Distinguish between subjective and objective information. 2.1.3

4 Interpret elements of communication using sender-message-receiver feedback model. 2.1.4

5 Modify communication to meet the needs of the patient/client and be appropriate to the situation. 2.1.5

6 Describe appropriate interactions with patients throughout various stages of psychological development. 2.1.6

Teamwork

B2. Describe and actively practice team member participation. B2

8. Analyze team interactions that identify effective patterns of communication among team members. 8

1 Evaluate roles and responsibilities of healthcare team members. 8.1.1

2 Identify characteristics of effective teams. 8.1.2

1 Recognize methods for building positive team relationships. 8.2.1

3 Apply effective techniques for managing team conflict. 8.2.3

3 Apply effective techniques for managing team conflict. 8.2.3

4 Evaluate why teamwork is an important part of health care and how it improves patient care. 8.2.4

8. Describe team member participation. 8

1 Recognize methods for building positive team relationships. 8.2.1

2 Analyze attributes and attitudes of an effective leader. 8.2.2

Legal Responsibilities

B3. Describe legal implications affecting health care workers. B3

5. Describe legal implications affecting health care workers. 5

1 Analyze legal responsibilities and implications of criminal law. 5.1.1

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5. Describe legal practices employed by health care workers. 5

   1 Apply standards for the safety, privacy and confidentiality of health information. 5.2.1

   2 Describe advance directives. 5.2.2

   3 Summarize the essential characteristics of a patient's basic rights within a healthcare setting. 5.2.3

   4 Differentiate informed and implied consent. 5.2.4

   5 Explain laws governing harassment. 5.2.5

   6 Describe the concept of scope of practice. 5.2.6

   7 Utilize procedures for reporting activities and behaviors that affect the health, safety, and welfare of others (incident report). 5.2.7

5. Utilize facility protocol and regulatory guidelines for collecting patient/client health care needs, strengths and problems. 5

   1 Apply standards for the safety, privacy and confidentiality of health information. 5.2.1

   7 Utilize procedures for reporting activities and behaviors that affect the health, safety, and welfare of others (incident report). 5.2.7

Academic Foundation

B4. Demonstrate a knowledge of the math concepts important in health care professions and use those skills to solve medical math problems. B4

1. Employ accepted protocols for evaluating patient/client needs, strengths and problems during treatment. 1

   1 Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare. 1.3.1

   2 Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results. 1.3.2

   3 Demonstrate use of the 24-hour clock/military time. 1.3.3

Information Tech in Healthcare

B4. Demonstrate a knowledge of the math concepts important in health care professions and use those skills to solve medical math problems. B4

11. Employ communication strategies used in the delivery of quality health care. 11

    1 Identify components of an electronic health record (EHR) and/or electronic medical record (EMR). 11.1.1

    2 Explore different types of health data collection tools. 11.1.2

    3 Create electronic documentation that reflects timeliness, completeness, and accuracy. 11.1.3

    4 Adhere to information systems policies, procedures, and regulations as required by national, state, and local entities. 11.1.4

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Academic Foundation

B4. Demonstrate a knowledge of the math concepts important in health care professions and use those skills to solve medical math problems. B4

1. Employ effective written communication techniques when responding to patient questions and concerns. 1

    1 Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare. 1.3.1

    2 Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results. 1.3.2

    3 Demonstrate use of the 24-hour clock/military time. 1.3.3

1. Implement treatment plans that adhere to facility protocols, regulatory guidelines and scope of practice. 1

    1 Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare. 1.3.1

    2 Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results. 1.3.2

    3 Demonstrate use of the 24-hour clock/military time. 1.3.3

1. Monitor patient/client using protocols for assessing, monitoring and reporting health status. 1

    1 Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare. 1.3.1

    2 Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results. 1.3.2

    3 Demonstrate use of the 24-hour clock/military time. 1.3.3

1. Therapeutic services professionals will evaluate patient and other client needs, strengths and problems in order to determine if treatment goals are being reached. 1

    1 Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare. 1.3.1

    2 Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results. 1.3.2

    3 Demonstrate use of the 24-hour clock/military time. 1.3.3

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1. Therapeutic services professionals will understand the general purpose and components of the treatment plan. They will collaborate in planning procedures according to facility protocol and regulatory guidelines. They will understand how these procedures support the goals and objectives of the treatment plan of the patient or other client and implement the procedures within their scope of practice. 1

    1 Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare. 1.3.1

    2 Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results. 1.3.2

    3 Demonstrate use of the 24-hour clock/military time. 1.3.3

1. Therapeutic services professionals will understand the process for monitoring patient and other client health status. They will assess health status and report the results to a treatment team. 1

    1 Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare. 1.3.1

    2 Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results. 1.3.2

    3 Demonstrate use of the 24-hour clock/military time. 1.3.3

1. Utilize strategies that support patient/client goals when developing treatment plans. 1

    1 Demonstrate competency using basic math skills and mathematical conversions as they relate to healthcare. 1.3.1

    2 Demonstrate the ability to analyze diagrams, charts, graphs, and tables to interpret healthcare results. 1.3.2

    3 Demonstrate use of the 24-hour clock/military time. 1.3.3

C1. Utilize knowledge of human structure and function to conduct health care role. C1

1. Utilize knowledge of human structure and function to conduct health care role. 1

    1 Describe the organization of the human body and directional terms. 1.1.1

    2 Identify basic structures and describe functions of human body systems. 1.1.2

C2. Utilize knowledge of diseases and disorders to conduct health care role. C2

1. Utilize knowledge of diseases and disorders to conduct health care role. 1

    1 Describe etiology, pathology, diagnosis, treatment, and prevention of common diseases and disorders, including, but not limited to those listed in NCHSE standards. 1.2.1

    2 Describe biomedical therapies as they relate to the prevention, pathology, and treatment of disease. 1.2.2

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Systems

C3. Explain systems theory as it applies to the healthcare environment. C3

3. Explain systems theory as it applies to the health care environment. 3

2 Examine the healthcare consumer's rights and responsibilities within the healthcare system. 3.1.2

4 Analyze healthcare economics and related terms. 3.1.4

3. Identify and explain key systems of the health care delivery system. 3

1 Differentiate healthcare delivery systems and healthcare related agencies. 3.1.1

C4. Explain the concept of system change as it applies to the healthcare environment. C4

3. Explain the concept of system change as it applies to the health care environment. 3

3 Analyze the impact of emerging issues on healthcare delivery systems. 3.1.3

Safety Practices

C5. Understand the existing and potential hazards to clients, co-workers and self. C5

7. Understand the existing and potential hazards to clients, co-workers and self. 7

1 Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations. 7.2.1

1 Apply personal safety procedures based on Occupational Safety and Health Administration (OSHA) and Centers for Disease Control (CDC) regulations. 7.2.1

2 Demonstrate principles of body mechanics during patient care. 7.2.2

2 Demonstrate principles of body mechanics during patient care. 7.2.2

3 Demonstrate and apply the use of personal protective equipment (PPE) 7.2.3

3 Demonstrate and apply the use of personal protective equipment (PPE) 7.2.3

1 Apply safety techniques in the work environment. 7.3.1

1 Apply safety techniques in the work environment. 7.3.1

1 Observe all safety standards related to the occupational exposure to hazardous chemicals standard (safety data sheets [SDS]) 7.4.1

1 Observe all safety standards related to the occupational exposure to hazardous chemicals standard (safety data sheets [SDS]) 7.4.1

2 Comply with safety signs, symbols, and labels 7.4.2

2 Comply with safety signs, symbols, and labels 7.4.2

Systems

C6. Identify and explain key systems of the health care delivery system. C6

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3. Identify and explain key systems of the health care delivery system. 3

1 Differentiate healthcare delivery systems and healthcare related agencies. 3.1.1

Employability Skills

C7. Display behaviors and practices that meet the expectations for employment in health care professions. C7

4. Analyze team interactions that identify effective patterns of communication among team members. 4

1 Identify personal traits and attitudes desirable in a career ready member of a health team. 4.1.1

Teamwork

C7. Display behaviors and practices that meet the expectations for employment in health care professions. C7

8. Analyze team interactions that identify effective patterns of communication among team members. 8

2 Identify characteristics of effective teams. 8.1.2

2 Analyze attributes and attitudes of an effective leader. 8.2.2

3 Apply effective techniques for managing team conflict. 8.2.3

Employability Skills

C7. Display behaviors and practices that meet the expectations for employment in health care professions. C7

4. Career Ready Practices 4

2 Summarize professional standards as they apply to hygiene, dress, language, confidentiality and behavior. 4.1.2

1 Apply employability skills in healthcare. 4.2.1

1 Research levels of education, credentialing requirements, and employment trends in health professions. 4.3.1

2 Distinguish differences among careers within a health science pathway. 4.3.2

1 Develop components of a personal portfolio. 4.4.1

2 Identify strategies for pursuing employment. 4.4.2

Legal Responsibilities

C7. Display behaviors and practices that meet the expectations for employment in health care professions. C7

5. Describe ethical practice as it applies to health care delivery. 5

1 Apply standards for the safety, privacy and confidentiality of health information. 5.2.1

Ethics

C7. Display behaviors and practices that meet the expectations for employment in health care professions. C7

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6. Describe ethical practice as it applies to health care delivery. 6

   1 Discuss religious and cultural values as they impact healthcare. 6.2.1

   2 Demonstrate respectful and empathetic treatment of ALL patients/clients. 6.2.2

Teamwork

C7. Display behaviors and practices that meet the expectations for employment in health care professions. C7

8. Describe team member participation. 8

   2 Identify characteristics of effective teams. 8.1.2

   1 Recognize methods for building positive team relationships. 8.2.1

8. Identify and describe health care teams. 8

   1 Evaluate roles and responsibilities of healthcare team members. 8.1.1

   4 Evaluate why teamwork is an important part of health care and how it improves patient care. 8.2.4

Communication

C7. Display behaviors and practices that meet the expectations for employment in health care professions. C7

2. Therapeutic services professionals will be able to communicate patient and other client information within a team. 2

   1 Model verbal and nonverbal therapeutic communication. 2.1.1

Teamwork

C8. Communicate with patients and colleagues using appropriate medical terminology. C8

8. Analyze team interactions that identify effective patterns of communication among team members. 8

   2 Identify characteristics of effective teams. 8.1.2

   1 Recognize methods for building positive team relationships. 8.2.1

   3 Apply effective techniques for managing team conflict. 8.2.3

Academic Foundation

C8. Communicate with patients and colleagues using appropriate medical terminology. C8

1. Employ effective oral communication techniques when responding to patient questions and concerns. 1

   1 Use common roots, prefixes, and suffixes to communicate information. 2.2.1

   2 Interpret common medical abbreviations to communicate information. 2.2.2

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1. Therapeutic services professionals will be able to explain planned procedures and goals to patients and other clients. They will use various strategies to respond to questions and concerns of patients and other clients. 1

    1 Use common roots, prefixes, and suffixes to communicate information. 2.2.1

    2 Interpret common medical abbreviations to communicate information. 2.2.2