

MODULE CMH2090: CIRCULATORY SYSTEM

Level: Intermediate

Theme: Health Sciences

Prerequisite: None

Module Description: Students study the anatomy, physiology and pathology of the circulatory system to gain an appreciation for practicing a healthy lifestyle, and to acquire the knowledge and skills necessary to deal with circulatory conditions as they affect the individual, family and friends. Students also identify community support resources.

Note: This module includes concepts that may be particularly sensitive to students, parents or community members.

Module Parameters: No specialized equipment or facilities.

Curriculum and Assessment Standards

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> identify and describe the anatomy, physiology, pathology, causes, treatment, prevention, impact and support resources available for selected cardiovascular conditions 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> a concept test that consists of a minimum of 10 questions in each of the following categories: <ul style="list-style-type: none"> structure of the circulatory system function of the circulatory system structure and function of the lymphatic system pathology of circulatory and lymphatic system. <p><i>Assessment Tool</i> <i>CMH2090–1: Concept Test: Circulation—</i> <i>Sample Questions</i></p> <p><i>Standard</i> <i>A performance rating of 50%</i></p>	30
	<ul style="list-style-type: none"> describing a selected cardiovascular condition as to: <ul style="list-style-type: none"> pathology and treatment causes prevention impact on the individual, family and the community community support resources available. <p><i>Assessment Tool</i> <i>CMH2090–2: Presentations/Reports:</i> <i>Cardiovascular Conditions</i></p> <p><i>Standard</i> <i>Performance rating of 2 on the rating scale</i></p>	30

MODULE CMH2090: CIRCULATORY SYSTEM (continued)

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> • describe the causes, signs and symptoms, treatment and prevention of cardiovascular emergencies • describe a personal action plan that will promote and maintain a healthy cardiovascular system • describe an ethical issue related to cardiovascular health • identify career opportunities related to cardiovascular health 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> • practical activities in which the student, using a minimum of two scenarios, recognizes circulatory emergencies and demonstrates appropriate first aid procedures: <ul style="list-style-type: none"> – first aid for wounds and bleeding – first aid for shock. <p><i>Assessment Tool</i> <i>CMHSCN: Scenarios</i></p> <p><i>Standard</i> <i>Performance rating of 2 for each scenario</i></p> <ul style="list-style-type: none"> • applied problem solving in which the student develops a personal action plan that promotes and maintains a healthy cardiovascular system. <p><i>Assessment Tool</i> <i>CMHPAP: Personal Action Plan</i></p> <p><i>Standard</i> <i>Performance rating of 2 on the rating scale</i></p> <ul style="list-style-type: none"> • analysis of an issue relating to the circulatory system. <p><i>Assessment Tool</i> <i>CMH2090–4: Issue Analysis: Circulatory System</i></p> <p><i>Standard</i> <i>Performance rating of 2 on the rating scale</i></p> <ul style="list-style-type: none"> • completion of three career profiles for careers in this area including: <ul style="list-style-type: none"> – duties, working conditions – education qualifications – employment opportunities – advancement potential – salary and benefits – personal characteristics. <p><i>Assessment Tool</i> <i>CMH–CAR: Career Profiles</i></p> <p><i>Standard</i> <i>Three career profiles; all sections completed for each profile</i></p>	<p>10</p> <p>10</p> <p>10</p> <p>10</p>

MODULE CMH2090: CIRCULATORY SYSTEM (continued)

Module Learner Expectations	Assessment Criteria and Conditions	Suggested Emphasis
<p><i>The student will:</i></p> <ul style="list-style-type: none"> demonstrate basic competencies. 	<p><i>Assessment of student achievement should be based on:</i></p> <ul style="list-style-type: none"> observations of individual effort and interpersonal interaction during the learning process. <p><i>Assessment Tool</i> <i>Basic Competencies Reference Guide and any assessment tools noted above</i></p>	<p>Integrated throughout</p>

Concept	Specific Learner Expectations	Notes
The Healthy Body	<p><i>The student should:</i></p> <ul style="list-style-type: none"> identify and describe the function of: <ul style="list-style-type: none"> the heart blood blood vessels the lymphatic system. 	<p>Model. Heart dissection. Blood types. Pulse rates—throughout the lifespan—before, during and after exercise. Blood pressure. Guest speakers. Blood donor clinics.</p>
Observation, Assessment and Application	<ul style="list-style-type: none"> describe the causes, signs and symptoms and treatments of the following circulatory conditions: <ul style="list-style-type: none"> heart disease congenital abnormalities vascular disorders blood disorders lymphatic disorders identify possible social, emotional and economic effects of these conditions on the individual, family, peers and the community outline the community resources available to individuals with cardiovascular conditions. describe the causes, signs and symptoms, treatment and prevention of cardiovascular emergencies. 	<p>For example:</p> <ul style="list-style-type: none"> rheumatic fever heart murmur varicose veins, arteriosclerosis leukemia mononucleosis. <p>Discuss technological advances to treat cardiovascular conditions.</p> <p>Demonstrate the treatment of wounds and bleeding. Shock. CPR—if a certified instructor Ambulance call – golden hour.</p>

MODULE CMH2090: CIRCULATORY SYSTEM (continued)

Concept	Specific Learner Expectations	Notes
Health Promotion	<p><i>The student should:</i></p> <ul style="list-style-type: none"> • outline measures an individual can take to promote and maintain a healthy circulatory system. 	Personal action plan.
Ethics	<ul style="list-style-type: none"> • identify ethical issues related to cardiovascular health. 	Blood transfusions. Organ donation. Transplants.
Career Exploration	<ul style="list-style-type: none"> • research the career opportunities related to cardiovascular health including: <ul style="list-style-type: none"> – training or education required – employment opportunities – volunteer opportunities – tasks, working conditions – salary and benefits. 	