DIAGNOSTIC IMAGING
SPECIALIZATION PROGRAMS

+(63)-961-4524-220
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A. Mabini St. Baliwag City, Bulacan

CT-SCAN TRAINING COURSE GUIDE

2025-2026

LECTURE AND LABORATORY

VISION	ATC Diagnostic Imaging Specialization Programs aims to set the global standard in the practice of acquiring diagnostic images.
MISSION	To produce reliable Medical Imaging Professionals who are globally competitive, supported with intensive training facility and upgraded instructional materials by the team of specialized physicians and qualified medical professionals.
GOALS	Guided by its vision and mission, ATC aims to: 1. provide advanced and specialized instruction that will produce globally competitive and well-rounded trainees. 2. promote career development for Radiologic Technologists and cardiac sonographers. 3. increase the quality of patient care services. 4. foster expertise in the field of medical imaging. 5. nurture compassion and integrity of the healthcare team

INSTRUCTOR/S' INFORMATION

Name:		**PRC License No.:**	
Email:		**Contact number:**	
Name:		**PRC License No.:**	
Email:		**Contact number:**	

COURSE INFORMATION

Course Code	TC- CT	**Course Title**	CT-SCAN Training Course	**LECTURE HOURS** **CLINICAL HOURS**	**10 hours** **100 hours**
Course Description	This course covered the basic, common and core competencies in acquiring CT-scan procedures.				
Qualifications of Trainees	• must be a licensed Radiologic Technologist • must accomplish all the necessary forms and documents prior training. • must be at least 18 years old				

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Course Outcomes	At the end of the unit, the trainees are expected to: 1. assess their clients who shall undergo routine examinations taking into consideration the requirements for each procedure. 2. demonstrate how to conduct various sonographic procedures with confidence using standard protocols 3. acquire, document and save sonographic images and videos. 4. recognize emergency situations in clients undergoing CT-scan examinations

Day	Topic	Intended Learning Outcomes (ILO)	Assessment	Teaching and Learning Activities
	BASIC COMPETENCY			
	I. PHYSICS AND INSTRUMENTATION A. Basic Principles of CT-Scan B. Data Acquisition C. Image Reconstruction D. Image Display E.	● Outline the development of CT-scan in medical imaging. ● Define the terms related to the application of CT-scan. ● Understand the physical aspects of CT-scan.	● **Chapter Quiz**	**Synchronous:** Face-to-face Meeting or Online Conferencing **Asynchronous:** Online Modules
	F. Post Processing G. Quality Assurance H. Data Management	● Identify the parameters and radiation dose delivered to the patient.		

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	II. PATIENT CARE A. Patient Assessment and Preparation B. Contrast Administration	• Understand how to obtain accurate and pertinent patient history. • Know the importance of scheduling and screening (lab values), patient education, consent, immobilization, management of accessory devices. • Know the advantages of using contrast media. • Identify the different types of contrast agents. • Review the adverse reactions of contrast media and post procedure care, and special considerations in CT contrast procedures. • Understand the administrative routes and dose calculations.	• **Chapter Quiz**	**Synchronous:** Face-to-face Meeting or Online Conferencing **Asynchronous:** Online Modules
	III. RADIATION DOSIMETRY A. Radiation Physics B. Radiation Protection C. Dose Measurement D. Patient Dose Reduction and Optimization	• Review the measurement of attenuation exhibited by a volume of tissue. • Understand the importance of strict clinical indication, protocol optimization and shielding. • Understand the techniques in reducing the patient dose.	• **Chapter Quiz**	**Synchronous:** Face-to-face Meeting or Online Conferencing **Asynchronous:** Online Modules

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COMMON COMPETENCY				
	IV. CROSS-SECTIONAL ANATOMY A. Neuro anatomy B. Thoracic Anatomy C. Abdominopelvic Anatomy D. Musculoskeletal Anatomy	• Understand the basic anatomy and physiology. • Identify the anatomy in cross-section and its relationship to adjacent structures.	• **Chapter Quiz**	**Synchronous:** Face-to-face Meeting or Online Conferencing **Asynchronous:** Online Modules
CORE COMPETENCIES				
	V. IMAGING PROCEDURES **A. HEAD** **B. NECK** **C. CHEST** **D. ABDOMINOPELVIC** **E. HEPATOBILIARY** **F. PELVIS AND REPRODUCTIVE SYSTEM** **G. MUSKULOSKELETAL SYSTEM**	• Differentiate normal anatomy to organs with diseases seen by CT-scan. • Understand the technical considerations for each procedure. • Know the techniques, preparations and acquisition of contrast-enhanced and special procedures in CT-scan.	• **Chapter Quiz**	**Synchronous:** Face-to-face Meeting or Online Conferencing **Asynchronous:** Online Modules

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Course Requirements	
1. Textbook: Romans. (2011). *Computed T. For Technologist*. China: Wolters Kluwer Health/ Lippincot Williams and Williams. 2. Textbook: DeMaio. (2018). *Mosby's Exam Review for Computed Tomography, 3rd Edition*.Missouri:Elsevier	
Prepared by:	**Checked by:**