

2 Day Course

Course Schedule

Saturday

Patient Care and Screening
Contrast Administration and Safety
Radiation Protection
Basic Principles of CT
Components of CT Scanner
Data Acquisition
Image Reconstruction

Sunday

Digital Imaging Processing
Image Manipulation
Quality Factors
Spiral - Helical
Multislice Spiral - Helical
Artifacts
Pathology

CT REGISTRY REVIEW / REFRESHER COURSE

***All participants will receive a complimentary copy of the Book "CT Layman's Terms: Registry Review (LJ Notes)"**

***Course Materials.**

***16 Category A CE Credit
(pending approval by the ASRT)**

CT REGISTRY REVIEW / REFRESHER COURSE



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ONE INNOVATION AT
A TIME**

AN EDUCATIONAL

SERVICE OF:



Objectives

1. To become familiar with Patient Care and Screening Issues related to CT.
2. To review the Standards of CT Safety and types of Contrast Agents.
3. To review the radiation protection issues related to CT
4. To review the Basic Principles and Terms of CT Physics and the Instrumentation used in CT scanning.
5. To review the concepts of Data Acquisition, Image Reconstruction and Digital Imaging Processing used in CT scanning.
6. To review the concepts of Image Quality Factors and Manipulation involved in CT scanning.
7. To review the advantages and disadvantages of Spiral—Helical and Multislice Spiral—Helical CT machines.
8. To review the different types of CT Artifacts.

LAWRENCE MCNAIR JR.,
M.P.H., R.T. (R) (CT) (MR)

Lawrence McNair is currently working as an independent consultant with New Age Innovations LLC, providing MRI, CT, and X-ray education and operations consulting. Lawrence is the author of "[MRI Layman's Terms Registry Review \(LJ Notes\)](#)", "[MRI Layman's Terms: The Basis Concepts of MRI Physics Made Easy \(LJ Notes\)](#)", "[CT Layman's Terms Registry Review \(LJ Notes\)](#)", "[CT Layman's Terms : The Basic Concepts of CT Physics Made Easy \(LJ Notes\)](#)", "[Diagnostic X-Ray Layman's Terms: The Basis Concepts of Diagnostic X-Ray Physics Made Easy \(LJ Notes\)](#)" and "[Diagnostic X-Ray Layman's Terms Registry Review \(LJ Notes\)](#)". Lawrence approach to this course is always entertaining and informative. Lawrence McNair's website is www.laymanterms.org.

COURSE OBJECTIVE

This course is designed to provide a comprehensive review of Computer Tomography and a step by step method of preparation for successful completion of the America Registry of Radiologic Technologists (ARRT) CT Registry Exam. This course is also designed for students that had a difficult time passing the CT Registry in the past or a Refresher for CT Technologist.

Sample of Topics Covered

Positive and Negative Contrast Media
MSAD, CTDI, DLP, DAP, and Dose Profile
Penumbra, SSP, Rads and Grays
Automatic Exposure Controls and Automatic Tube Current Modulation
Attenuation, CT Numbers, and Windowing
SFOV, DFOV, Targeting, and Magnification
Contiguous and Non Contiguous Slices
Array processor, Gantry, and CPU
Parallel, Beam, Spiral, and Cone Beam
WW, WL, Isotropic, and Volume Coverage
Slice Thickness, Collimation, and Pitch