

10 Week Course Schedule

Week 1

Patient Care and Screening
Contrast Administration and Safety

Week 2

Radiation Protection

Week 3

Basic Principles of CT
Components of CT Scanner

Week 4

Data Acquisition
Image Reconstruction

Week 5

Digital Image Processing
Image Manipulation

Week 6

Image Quality Factors

Week 7

Spiral—Helical

Week 8

Multislice Spiral—Helical

Week 9

Artifacts

Week 10

Pathology

CT MADE EASY COURSE

***All participants will receive a complimentary copy of the books "CT Layman's Terms: The Basis Concepts of CT Physics Made Easy (LJ Notes)", "CT Layman's Terms: Registry Review (LJ Notes)" and Course Materials.**

*** 24 CEU's Approved by ASRT**

***Certificate of Course Completion**

***Access to Instructor for CT questions and explanations**

*** See Terms and Conditions**

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CT MADE EASY COURSE



**NEW AGE INNOVATIONS
LLC.**

**TOUCHING LIVES
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 learn about the standards of CT Safety and types of Contrast Agents
3. To learn about Radiation Protection issues related to CT.
4. To learn about the Basic Principles and Terms of CT Physics and Instrumentation used in CT scanning.
5. To learn the different concepts of Data Acquisition used in CT scanning.
6. To become familiar with the concepts of Image Reconstruction and Digital Image Processing used in CT scanning.
7. To grasp the concepts of Image Quality Factors and Manipulation involved in CT scanning.
9. To grasp the advantages and disadvantages of Spiral—Helical and Multislice Spiral—Helical CT machines.
10. To review and recognize the types of CT Artifacts and Pathology.

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 for Technologists who have had no previous experience with CT as well as those working in CT, but have had no formal education in basic CT principles. This course also serves as an in depth course for Technologists preparing to take the ARRT CT Registry Exam. The class is approved for 24 Hrs Category A Credit. If the participant has had no prior experience to CT, it is recommended the participant observe at an CT facility a few weeks prior to taking the course.

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