

2 Day Course
Course Schedule

Saturday

Patient Care and Screening
Contrast Administration and Safety
Instrumentation
Basic Principles of MRI
Contrast and Imaging Weighting
Intro. To Conventional Spin Echo and
Gradient Echo Sequences

Sunday

Spatial Encoding and K – Space
Parameters and Tradeoffs
Types of Pulse Sequences
Flow Phenomena and Compensation
Artifacts
Pathology

**MRI REGISTRY
REVIEW /
REFRESHER COURSE**

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

***Course Materials.**

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

**MRI
REGISTRY
REVIEW /
REFRESHER
COURSE**



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**NEW AGE INNOVATIONS
LLC.**

**TOUCHING LIVES
ONE INNOVATION AT
A TIME**

AN EDUCATIONAL

SERVICE OF:



Objectives

1. To review the Standards of MRI Safety and types of Contrast Agents
2. To review the different types of MRI Machines and Coils used in MRI Scanning.
3. To review the Basic Principles and Terms of MRI Physics.
4. To review the different concepts of Imaging Weighting and the technical factors involved.
5. To review the concepts of Spatial Encoding and K – Space.
6. To review the advantages and disadvantages of the Parameters involved in MRI Scanning.
7. To review the different Pulse Sequences used in MRI Scanning.
8. To review the concepts of Flow Phenomena and Compensation Techniques.
9. To review and recognize the different types of image 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. He also serves as the MRI Clinical Instructor at Birmingham Veterans Hospital. 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 Magnetic Resonance Imaging and a step by step method of preparation for successful completion of the America Registry of Radiologic Technologists (ARRT) MRI Registry Exam. This course is also designed for students that had a difficult time passing the MRI Registry in the past or a Refresher for MRI Technologists.

Sample of Topics Covered

Magnetism, Alignment of Spins, & Precession
Larmor Equation, Resonance, & Free Induction Decay
T1 and T2 Relaxation
Repetition Time & Echo Time
T1, T2, and PD Contrast Weighting
Types of Pulse Sequences (Pros and Cons)
Scanning Parameters
Flow Phenomena and Compensation Tech.