

This Exam Outline was developed to help you prepare for the knowledge exam.

Review:

- Material classifications such as water or tissues
- Contrast agents, classifications, materials, dosing
- Imaging techniques such as CT, radiography, ultrasound, MRI
- Imaging sequencing and features
- MRI indications, contraindications, and clinical requirements
- Types of imaging, indications, contraindications, techniques
- Types of artifact, sources and causes
- Frequency types, uses, indications
- Magnetic field components and hardware
- Machine maintenance requirements
- FDA Recommended absorption rates
- Define:
 - Central frequency
 - Fast Fourier transform
 - K-space formula
 - Sum of Squares
 - Net magnetization factors
 - Weighted sequence signals
 - Anti-aliasing
 - Excitation pulses
 - Inversion recover sequence
 - Slice select gradient
 - Echo collection
 - Frequency encoding
 - Phase encoding
 - RF pulse
 - Faraday's law of induction
 - Gauss
 - Tesla

