

ADVANCED HEALTH EDUCATION CENTER

MR Prep and Exam Review

Day One

9:00 – 10:40AM	MR System Components Magnet Design Gradient System Design Radio frequency System	Module One
10:40 – 10:50AM	Break	
10:50 – 12:30PM	Fundamental MRI Principles Nuclear Characteristics Fundamental Principles Magnetism	Module Two
12:30 – 1:00PM	Lunch	
1:00 – 2:40PM	Tissue Characteristics T1, T2, T2*, PD Characteristics Relaxation Times Relaxation Curves Contrast Parameters	Module Three
2:40 – 2:50PM	Break	
2:50 – 4:30PM	Pulse Sequence Design Conventional Spin Echo Fast Spin Echo Gradient Recalled Echo Fast Gradient Echo Inversion Recovery, STIR, FLAIR 3D Imaging Design Image Procedures	Module Four

ADVANCED HEALTH EDUCATION CENTER

MR Prep and Exam Review

Day Two

9:00 – 10:40AM	Sequence Parameters and Options Contrast Discrimination Spatial Resolution Signal-to-Noise	Module 5
10:40 – 10:50AM	Break	
10:50 – 12:30PM	MR Angiography Time of Flight Phase Contrast Terminology Image Reconstruction, MIP	Module 6
12:30 – 1:00PM	Lunch	
1:00 – 2:40PM	Safety Biological Effects Considerations Biomedical Implants Patient Safety Specific Absorption Rate Safe Limit Lines	Module 7
2:40 – 3:50PM	Break	
3:50 – 4:30PM	Artifacts Image Artifact Recognition Artifact Management and Elimination	Module 8