

***Sample* 3 Day MRI Training Course Agenda**

Day One

MR Fundamentals

* Atomic structure and motion
* Precession and resonance
* Relaxation: FID, T1 and T2
* Intro to a pulse sequence timing diagram

Image Weighting and Contrast

* Intrinsic and Extrinsic parameters
* Relaxation in different tissues
* T1w, T2w, PDw

Instrumentation

MR Safety

Day Two

Spatial Localization

* K-space
* Slice selectin, frequency and phase encoding
* Time formula

Parameters and Tradeoffs

* Spatial resolution
* Time
* SNR and CNR

SE and GRE Sequences

Day Three

On Scanner – Protocol / Sequence Optimization and Image Evaluation

**~ Agenda Subject to Change ~**

**800-765-6864 ~** [**custservice@mtmi.net**](mailto:custservice@mtmi.net) **~** [**www.mtmi.net**](http://www.mtmi.net)