

***Sample* Breast Ultrasound Course Agenda**

16 Hour Program / 2 Day

This activity provides the 16 hours of structured education related to the content specifications outlined by the ARRT, required for certification and registration.

Day One

Basic Physics of Ultrasound

* Ultrasound wave characteristics
* Fundamentals
* Bio-effects

Breast Anatomy and Physiology

* Physiologic characteristics

Benign and Malignant Features

* Margins
* Echogenicity
* Shape
* Heterogeneity
* Compressibility
* Vascularity

Instrumentation and Technique

* Transducers
* Technical factors
* Safety and bio-effects
* Image orientation

Patient Care

Accreditation

* Mammography
* Breast Ultrasound

Mammographic Correlations

Artifacts (image production)

Shadowing, Enhancement, Reverberation

Instructor Led Hands-on Workshop

Day Two

Benign Breast Lesions

* Cysts
* Fibrocystic change
* Fibroadenoma
* Papilloma
* Hamartoma
* Inflammation and infection
* Trauma
* Gynecomastia
* Diabetic Mastopathy

Malignant Breast Lesions

* Statistics
* Ductal Carcinoma In Situ
* Lobular Carcinoma In Situ
* Invasive Ductal / Lobular CA
* Breast Neoplasms
* Medullary CA
* Colloid CA
* Papillary and Tubular CA
* Uncommon Malignant Breast Neoplasms

Other Imaging Modalities

* BIRADS and assessments
* Ductography
* MRI, DBT, NM, PET/CT
* Implant imaging
* BSGI / PEM

Emerging Technologies

Instructor Led Hands-on Workshop

**~ Agenda Subject to Change ~**

**Educational Objectives**

*At the completion of the program, participants will be able to:*

* Recognize normal breast anatomy on the ultrasound image and evaluate lesions for their benign or malignant features.
* Recall the mammographic and ultrasonic features of specific benign and malignant lesions.
* Recognize breast ultrasound artifacts, understand why they occur and describe techniques to minimize the occurrence of those that degrade the image.
* Understand the techniques use to correlate mammographic images to ultrasound images.

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