

### Class Concept

Positions in this class work in a radiology department using non-invasive ultrasound imaging techniques such as gray-scale, real-time, spectral-power, and color Doppler to detect or identify abnormalities. Positions apply clinical ultrasound to capture abnormalities or changes in general abdominal, obstetric/gynecological/fetal, small parts/breast/musculoskeletal, vascular/cardiac, and to biopsy body tissue, etc. Positions must accurately apply linear, curved linear array, phased array/sector, endocavitary, and intraoperative probing techniques and determine appropriate depth ranges (i.e., deep, middle, or superficial) and footprint size in addition to ensuring an appropriate seal is obtained between the client and the transducer and the client is appropriately positioned such that an accurate and clear image will be captured. Also, positions in this class provide a written summary of the technical findings and discuss test results with the physician. Position may use static, mobile, or portable diagnostic equipment, thermal black and white and/or color printers, digital video recorders, and a variety of hard/software. Positions in this class must be able to conduct safety testing and ensure that equipment and machines meet quality specifications and may be responsible for the oversight of maintenance contracts. In addition, positions in this class must conduct frequent equipment and machine reviews as rapid changes in technology and changing clinical expectations occur.

### Recruitment Standards

#### Knowledge, Skills, and Abilities

- Knowledge of the application of ultrasound imaging techniques by use of a variety of equipment machines such as gray-scale, real-time, spectral-power, and color Doppler.
- Knowledge of anatomy including muscular, skeletal, and circulatory systems and diseases and their effects on the human body.
- Skill in providing written summaries and discussing test results with the physician.
- Ability to communicate with a variety of customers and clients including clinical staff, patients, and vendors.

#### Minimum Education and Experience

Associate's degree in Medical Sonography, Cardio/Vascular Sonography, or a closely related degree from an appropriately accredited institution; or an equivalent combination of education and experience.