



Medical Imaging Program Standards

1.0 Academic Foundations

- 1.1 Understand human anatomy, physiology, and medical terminology.
- 1.2 Apply principles of physics related to imaging (e.g. radiation safety, wave properties).

2.0 Communications

- 2.1 Use medical terminology appropriately in written and verbal communication.
- 2.2 Practice effective communication with patients and healthcare teams.

3.0 Safety Practices

- 3.1 Apply radiation safety protocols (e.g. ALARA principle: As Low As Reasonably Achievable).
- 3.2 Understand OSHA standards for healthcare environments.
- 3.3 Apply principles of radiographic physics.
- 3.4 Understand radiobiology and radiation protection practices.

4.0 Medical Imaging Technical Skills

- 4.1 Demonstrate knowledge of diagnostic imaging principles.
- 4.2 Practice patient positioning techniques for imaging.
- 4.3 Understand imaging modalities (e.g. X-rays, CT, MRI, ultrasound).
- 4.4 Identify and evaluate image quality and artifacts.
- 4.5 Demonstrate transferring, transporting, and positioning of patients in diagnostic imaging using specific mobility devices.
- 4.6 Demonstrate the use of patient-supportive devices.

5.0 Legal and Ethical Responsibilities

- 5.1 Understand patient confidentiality under HIPAA regulations.
- 5. Apply ethical decision-making in diagnostic procedures.



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6.0 Health Maintenance Practices

- 6.1 Educate patients about imaging preparation (e.g. fasting, contrast dyes).
- 6.2 Support overall patient care during diagnostic processes.
- 6.3 Practice techniques for reducing patient anxiety during procedures.
- 6.4 Ensure proper patient preparation and positioning for imaging.

7.0 Information Technology and Equipment Applications

- 7.1 Operate imaging software and digital record systems.
- 7.2 Understand Picture Archiving and Communication Systems (PACS).
- 7.3 Demonstrate knowledge of imaging equipment components.
- 7.4 Troubleshoot basic imaging equipment issues.

8.0 Phlebotomy Procedures

- 8.1 Explain the scope of practice and regulations regarding phlebotomy according to CLIA and CAP.
- 8.2 Recognize terms, abbreviations, and codes commonly used in laboratory testing.
- 8.3 Describe basic functions of the cardiovascular system.
- 8.4 Distinguish characteristics of arterial, venous, and capillary blood.
- 8.5 Demonstrate an understanding of the anatomy and physiology of the hand and arm.
- 8.6 Apply laboratory requisitions/orders specific to the necessary specimen requirements (e.g. chemistries, blood bank, serology, hematology, microbiology, urinalysis, coagulation, tube type, and volume).
- 8.7 Follow standard operating procedures.
- 8.8 Use proper methods to ensure patient identification (e.g. name, DOB, and MRN).
- 8.9 Provide a comfortable, safe environment, explaining procedures to patients and using medical interpreters as needed.
- 8.10 Use phlebotomy equipment according to manufacturer guidelines.
- 8.11 Perform phlebotomy collection procedures (e.g. venous blood, capillary blood, and blood cultures).