



COMPUTED TOMOGRAPHY TECHNOLOGIST PROGRAM OBJECTIVES AND COMPETENCIES

Program objectives and competencies at Southwest University (SU) are determined by the competencies that are established by corresponding accrediting organizations (ABHES); the Computed Tomography Technologist Program is recognized by The American Registry of Radiologic Technologists (ARRT). All graduates that qualify are eligible to sit for the ARRT credentialing examination. Southwest University is also recognized by and by information relayed to SU from the local healthcare community.

Additionally, information and survey data from externship sites, from students, from board members and faculty may also be used to ensure that established curriculum for courses at Southwest University reflect the most current job-skill requirements for imaging healthcare professionals including all aspects of personal radiation monitoring and radiation safety. The Computed Tomography objectives and competencies are listed below.

1. Evaluation of requisition and/or medical record and patient identification
2. Verification of patient history (including Allergies)
3. Patient Education and Explanation of current procedure
4. Address patient concerns and questions in an appropriate manner
5. Documentation of patient data in appropriate records
6. Proper documentation of procedure and labeling
7. Patient discharged with post procedure instructions
8. Demonstrate HIPAA regulations, insuring patient privacy and dignity
9. Set-up CT room prior to patient entering
10. Gantry and table set up correctly
11. Demonstrate proficiency with equipment and controls
12. Demonstration of Universal Precaution
13. Proper scanner calibration and resetting for Quality Assurance.
14. Correct protocol selection and adjustments using age and weight techniques
15. Accurate parameter selection (e.g., image thickness, mA, time, algorithm, pitch)
16. Initiate scans
17. Ability to display and archive images to PACS or print images.
18. Correctly operates the automatic power injector for contrast media studies.
19. Properly selects, prepares and administers contrast media
20. Set correct technique or protocol before positioning
21. Positioned and aligned the patient correctly
22. Correct use of 3D workstation for image post processing
23. Patient Safety during all aspects of the CT procedure
24. Applies all radiation safety measures for patients and personal protection (e.g. Lead Shielding, scan coverage, correct use of radiation dosimetry)
25. Inquired about pregnancy status if applicable
26. Used appropriate dose modulation techniques (e.g., SMART mA, auto mA, CARE dose, SURE)
27. Properly displace using correct window widths and levels
28. Accurately identified anatomic region (e.g., delayed imaging, algorithm, slice thickness)

By signing below, the student acknowledges and understands the program objectives and competencies

Printed Name
Date

Signature