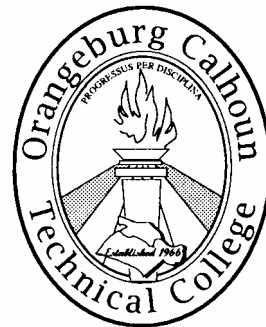


RADIOLOGIC TECHNOLOGY COMPETENCY PROFILE



ORANGEBURG-CALHOUN TECHNICAL COLLEGE

3250 ST. MATTHEWS ROAD, NE ORANGEBURG, SOUTH CAROLINA

(803)-536-0311

www.octech.org

3/31/2005

RADIOLOGIC TECHNOLOGY COMPETENCY PROFILE

A. PRACTICE PATIENT PROTECTION	A-1 QUESTION FEMALE PATIENTS OF CHILD-BEARING AGE ABOUT MENSTRUAL CYCLE AND/OR POSSIBLE PREGNANCY TO ALERT PHYSICIAN	A-2 SECURE SIGNATURE OF CHILDBEARING FEMALE (Pregnant or Not)	A-3 SELECT EQUIPMENT APPROPRIATE FOR THE EXAMINATION REQUESTED
	A-4 SELECT FILM/SCREEN AND/OR GRID COMBINATION APPROPRIATE FOR THE PART TO BE RADIOGRAPHED	A-5 PLACE PROTECTIVE SHIELD OVER RADIOSENSITIVE ORGANS PRIOR TO EXPOSURE WHEN THEY ARE IN OR NEAR THE PRIMARY BEAM IF NOT DETRIMENTAL TO THE QUALITY OF THE FILM	A-6 RESTRICT BEAM TO LIMIT EXPOSURE TO AREA OF INTEREST AND TO IMPROVE IMAGE QUALITY
	A-7 SET kVp, mA AND TIME OR AUTOMATED EXPOSURE SYSTEM TO ACHIEVE OPTIMUM IMAGE QUALITY, SAFE OPERATING CONDITIONS AND MINIMIZE RADIATION EXPOSURE	A-8 NOTE FLUORO TIME	A-9 FOLLOW STANDARD PRECAUTIONS
B. PRACTICE PERSONNEL PROTECTION	B-1 REMOVE ALL UNNECESSARY PERSONS FROM AREA PRIOR TO TAKING RADIOGRAPH TO REDUCE EXPOSURE TO RADIATION	B-2 MINIMIZE PERSONNEL RADIATION EXPOSURE BY USING LEAD BARRIERS AND INCREASED DISTANCE FROM RADIATION SOURCE	B-3 WEAR A PERSONNEL MONITORING DEVICE WHILE ON DUTY TO OBTAIN A RECORD OF RADIATION EXPOSURE OVER A GIVEN PERIOD OF TIME
	B-4 MINIMIZE RADIATION TO SELF USING ASSISTANCE OF FAMILY MEMBER, ETC.	B-5 FOLLOW STANDARD PRECAUTIONS	B-6 KEEP CAREER DOSIMETRY LOG
C. OPERATE RADIOGRAPHIC EQUIPMENT/REPORT MALFUNCTIONS	C-1 WARM-UP X-RAY TUBE TO ACHIEVE PROPER OPERATING CONDITIONS BY FOLLOWING MANUFACTURER'S PRESCRIBED SEQUENCE OF STEPS	C-2 ASSIST RADIOLOGIST IN FLUOROSCOPY BY PREPARING THE FLUOROSCOPIC UNIT AND ACCESSORIES FOR USE AND BY ADJUSTING CONTROLS AS REQUESTED DURING THE PROCEDURE	C-3 RECOGNIZE AND REPORT MALFUNCTIONS OF RADIOGRAPHIC UNIT (Including table, tube, and accessories), NOTING DIFFICULTIES THAT MIGHT ASSIST IN LOCATING CAUSE OF MALFUNCTION
	C-4 USE CAUTION WITH EQUIPMENT HANDLING		

D. OPERATE COMPUTERIZED/ DIGITAL RADIOGRAPHIC EQUIPMENT	D-1 FOLLOW PROPER STARTUP AND SHUTDOWN PROCEDURE FOR CR/DR EQUIPMENT	D-2 PLACE CASSETTE IN AS REQUIRED BY MANUFACTURER	D-3 CHECK IMAGES BEFORE RELEASING TO PHYSICIAN
	D-4 UTILIZE WINDOW LEVELING TO ENHANCE DIAGNOSTIC QUALITY BEFORE VERIFYING OR SENDING TO RADIOLOGIST		
E. PRODUCE AND EVALUATE IMAGES	E-1 SELECT FILM/SCREEN AND/OR GRID COMBINATION APPROPRIATE FOR THE PART TO BE RADIOGRAPHED	E-2 DETERMINE APPROPRIATE EXPOSURE FACTORS USING CALIPERS, TECHNIQUE CHARTS, AND TUBE RATING CHARTS FOR GUIDANCE	E-3 MODIFY EXPOSURE FACTORS FOR CIRCUMSTANCES SUCH AS VOLUNTARY AND INVOLUNTARY MOTION, PLASTER CASTS, PATHOLOGICAL CONDITIONS, AND/OR PATIENT'S INABILITY TO COOPERATE
	E-4 SET kVp, mA AND TIME OR AUTOMATED EXPOSURE SYSTEM TO ACHIEVE OPTIMUM IMAGE QUALITY, SAFE OPERATING CONDITIONS, AND MINIMIZE RADIATION EXPOSURE	E-5 INSPECT/CLEAN OR ERASE SCREENS/ CASSETTES	E-6 PERFORM SAFETY CHECKS OF RADIOGRAPHIC EQUIPMENT AND ACCESSORIES <i>(e.g., Lead Aprons, Gloves, Collimator Accuracy)</i>
F. MONITOR PROCESSED FILM QUALITY	F-1 PERFORM "START UP" AND/OR "SHUTDOWN" PROCEDURES ON AUTOMATIC PROCESSOR <i>(e.g., Adjust Water, Removal and Cleaning of "Cross Over" Bars)</i>	F-2 RECOGNIZE AND REPORT MALFUNCTIONS IN AUTOMATIC PROCESSOR, NOTING DIFFICULTIES WHICH MIGHT ASSIST IN LOCATING CAUSE OF MALFUNCTION	F-3 MONITOR PERFORMANCE OF AUTOMATIC PROCESSOR USING SENSITOMETRY
	F-4 STORE FILM/CASSETTE IN A MANNER WHICH WILL REDUCE THE POSSIBILITY OF ACCIDENTALLY EXPOSING OR RE-EXPOSING FILM	F-5 IMPRINT PROPER IDENTIFICATION ONTO FILM USING EITHER THE RADIOGRAPHIC, PHOTOGRAPHIC OR LIGHT IMPRINTER METHOD	F-6 PROCESS EXPOSED FILM BY UNLOADING CASSETTE AND FEEDING INTO AUTOMATIC PROCESSOR
	F-7 RELOAD CASSETTES BY SELECTING FILM OF PROPER SIZE AND TYPE	F-8 USE PROPER SAFE LIGHT FOR FILM TYPE BEFORE PROCESSING	F-9 PRACTICE PROPER HANDLING TECHNIQUES TO ELIMINATE ARTIFACTS
	F-10 FOLLOW DARK ROOM CLEANLINESS PROCEDURES	F-11 MAINTAIN PROCESSOR QC	
G. FOLLOW PROCEDURES FOR IMAGE PRODUCTION AND EVALUATION	G-1 VERIFY CORRECTNESS OF PATIENT FILM IDENTIFICATION <i>(e.g., Flash Card or Lead Markers)</i> INDICATING PT'S NAME, FILE #, DATE OR OTHER PERTINENT INFORMATION	G-2 ATTACH RADIOPAQUE MARKERS TO CASSETTE TO INDICATE BODY SIDE, POSITION, OR OTHER RELEVANT INFORMATION	G-3 DETERMINE CORRECTIVE MEASURES IF RADIOGRAPH IS NOT OF DIAGNOSTIC QUALITY

H. PRACTICE CORRECT RADIOGRAPHIC PROCEDURES	H-1 EXPLAIN PROCEDURE TO PATIENT TO RELIEVE ANXIETY AND GAIN PATIENT'S COOPERATION DURING PROCEDURES	H-2 GIVE PATIENT APPROPRIATE BREATHING INSTRUCTIONS (<i>e.g., Inspiration, Expiration</i>) PRIOR TO MAKING EXPOSURE	H-3 REMOVE ALL RADIOPAQUE MATERIALS FROM PATIENT AND/OR TABLE THAT COULD INTERFERE WITH THE QUALITY OF THE RADIOGRAPH
	H-4 POSITION PATIENT TO DEMONSTRATE THE DESIRED ANATOMICAL PART(S) USING BODY LANDMARKS AND STANDARD RADIOGRAPHIC POSITIONS	H-5 USE IMMOBILIZATION DEVICES, WHEN INDICATED, TO PREVENT PATIENT MOVEMENT	H-6 ADJUST TABLE, RADIOGRAPHIC/FLUOROSCOPIC EQUIPMENT, AND IMAGE RECEPTOR TO PRODUCE DESIRED RADIOGRAPHIC VIEW
	H-7 EXPLAIN FOLLOW-UP PROCEDURES AND GIVE POST-STUDY INSTRUCTIONS	H-8 FOLLOW AGE SPECIFIC CRITERIA	H-9 DOUBLE CHECK IDENTIFICATION OF PATIENT
	H-10 VERIFY PHYSICIAN'S ORDER WITH PATIENT HISTORY BEFORE PERFORMING RADIOGRAPH		
I. FOLLOW SPECIFIC IMAGING PROCEDURES	I-1 SELECT EQUIPMENT APPROPRIATE FOR THE EXAMINATION REQUESTED	I-2 POSITION PATIENT, X-RAY TUBE, OR FLUOROSCOPIC UNIT, AND IMAGE RECEPTOR TO PRODUCE RADIOGRAPHS REQUESTED BY PHYSICIAN.	
J. RECORD MAINTENANCE AND ADMINISTRATIVE PROCEDURES	J-1 EXAMINE/VERIFY ACCURACY OF PHYSICIAN'S ORDERS	J-2 RETRIEVE PATIENT'S RADIOGRAPHIC RECORDS (<i>e.g., Radiographs or Reports</i>) WHEN REQUESTED	J-3 FOLLOW DEPARTMENT PROCEDURES FOR LOANING AND RECEIVING FILM
	J-4 MONITOR MEDICAL EQUIPMENT ATTACHED TO PATIENT	J-5 RECORD PATIENT HISTORY	J-6 RECORD REQUIRED INFORMATION ON REQUEST FORM FOLLOWING PERFORMANCE OF EXAM
	J-7 COMBINE RADIOGRAPHIC REQUISITION AND RADIOGRAPHS FOR INTERPRETATION AND FILING		
K. PROVIDE PATIENT SAFETY AND COMFORT	K-1 PROVIDE FOR PATIENT COMFORT AND MODESTY	K-2 USE PROPER BODY MECHANICS TO ASSIST PATIENT	K-3 FOLLOW TRANSPORT GUIDELINES
	K-4 OBTAIN PATIENT HISTORY	K-5 DETERMINE LOCATION OF DEPARTMENT AND MSDS MANUALS	K-6 FOLLOW STANDARD PRECAUTIONS
L. PRACTICE DISINFECTION AND STERILE TECHNIQUE	L-1 USE STERILE OR ASEPTIC TECHNIQUE AS REQUIRED	L-2 DISINFECT AND STERILIZE FACILITIES AND EQUIPMENT (<i>e.g. Cassettes, Tabletops</i>)	L-3 DISPOSE OF CONTAMINATED ITEMS PROPERLY
	L-4 FOLLOW STANDARD PRECAUTIONS		

M. PRACTICE ISOLATION TECHNIQUES	M-1 FOLLOW APPROPRIATE PROTECTIVE TECHNIQUES		M-2 FOLLOW STANDARD PRECAUTIONS															
N. PREPARE INJECTABLE AND NON-VASCULAR CONTRAST MEDIA	N-1 INFORM PATIENT OF PROPER PREP PRIOR TO PROCEDURE	N-2 OBTAIN PATIENT CONSENT FORM USING KNOWLEDGE OF COMMON REACTIONS	N-3 PRIOR TO INJECTION OF AN IODINATED CONTRAST MEDIUM, CHECK PATIENT HISTORY															
	N-4 PERFORM RADIOGRAPHIC EXAMINATIONS IN A SEQUENCE WHICH AVOIDS OR MINIMIZES UNDESIRABLE EFFECTS <i>(e.g., Effects of residual contrast medium)</i>	N-5 USE PROPER NEEDLE PROCEDURES	N-6 ASSIST PHYSICIAN WITH ADMINISTRATION OF CONTRAST MEDIA															
	N-7 OBSERVE PATIENT FOR REACTION AFTER INJECTION OF IODINATED CONTRAST MEDIUM	N-8 PROVIDE PATIENT WITH POST-EXAM INSTRUCTIONS	N-9 FOLLOW DEPARTMENTAL INCIDENT REPORT PROCEDURES FOR PATIENT, VISITOR OR STAFF IF NECESSARY															
O. RECOGNIZE AND TREAT EMERGENCY SITUATIONS	O-1 RECOGNIZE NEED FOR MEDICAL ATTENTION AND ADMINISTER EMERGENCY CARE	O-2 MONITOR VITAL SIGNS/ MEDICAL EQUIPMENT	O-3 DETERMINE LOCATION OF CRASH CART															
	O-4 FOLLOW STANDARD PRECAUTIONS																	
WORKER BEHAVIORS AND SKILLS	<table border="0"> <tr> <td>FLEXIBLE</td> <td>PROFESSIONAL</td> <td>UNDERSTANDS NEED FOR CONFIDENTIALITY</td> </tr> <tr> <td>DEPENDABLE</td> <td>RESOURCEFUL</td> <td>DRESSES APPROPRIATELY</td> </tr> <tr> <td>CHEERFUL</td> <td>EAGER TO LEARN</td> <td>RESPECTFUL OF OTHERS</td> </tr> <tr> <td>GOAL SETTING SKILLS</td> <td>GOOD RESOURCE MANAGEMENT SKILLS</td> <td>GOOD TIME MANAGEMENT SKILLS</td> </tr> <tr> <td>GOOD PEOPLE SKILLS</td> <td>GOOD COMMUNICATION SKILLS</td> <td>DISPLAYS HONESTY AND INTEGRITY</td> </tr> </table>			FLEXIBLE	PROFESSIONAL	UNDERSTANDS NEED FOR CONFIDENTIALITY	DEPENDABLE	RESOURCEFUL	DRESSES APPROPRIATELY	CHEERFUL	EAGER TO LEARN	RESPECTFUL OF OTHERS	GOAL SETTING SKILLS	GOOD RESOURCE MANAGEMENT SKILLS	GOOD TIME MANAGEMENT SKILLS	GOOD PEOPLE SKILLS	GOOD COMMUNICATION SKILLS	DISPLAYS HONESTY AND INTEGRITY
FLEXIBLE	PROFESSIONAL	UNDERSTANDS NEED FOR CONFIDENTIALITY																
DEPENDABLE	RESOURCEFUL	DRESSES APPROPRIATELY																
CHEERFUL	EAGER TO LEARN	RESPECTFUL OF OTHERS																
GOAL SETTING SKILLS	GOOD RESOURCE MANAGEMENT SKILLS	GOOD TIME MANAGEMENT SKILLS																
GOOD PEOPLE SKILLS	GOOD COMMUNICATION SKILLS	DISPLAYS HONESTY AND INTEGRITY																
GENERAL KNOWLEDGE	SPECIALIZED PROCEDURES IN FLUOROSCOPIC SETTING SURGERY WITH C-ARM AND PORTABLES MAMMOGRAPHY SPECIAL PROCEDURES BONE DENSITOMETRY CT, MRI, US, VAS, NM, RADIATION THERAPY CR/DR TRAINING																	

THIS DACUM WAS CONDUCTED ON MARCH 31, 2005, AT ORANGEBURG-CALHOUN TECHNICAL COLLEGE

FACILITATOR: JENNIE REDMOND

FOR MORE INFORMATION CONTACT

RECORDER: JENNIE REDMOND

FRANCES ANDREWS RADIOLOGIC TECHNOLOGY DEPARTMENT (803) 535-1356

DACUM PANEL:

DARLA OTT ADVANCED DIAGNOSTIC IMAGING ORANGEBURG, SC

LISA INABINET THE REGIONAL MEDICAL CENTER ORANGEBURG, SC