



DOSIMETRIST SKILLS EVALUATION - SELF ASSESSMENT

Level Of Proficiency

Date _____

Name _____

Signature _____

- A = Never Performed. You have never performed the stated task and have no experience with this type of skill.
- B = Familiar with. You are familiar with the stated task; but you would need more experience and practice to feel comfortable and proficient in this type of skill.
- C = Experienced in. You have performed this task several times; you feel moderately comfortable functioning independently, but you would require a resource person to be nearby.
- D = Expert. You have a performed this task frequently; you feel comfortable and proficient in this skill; you would not require supervision or practice.

Please select the column that most accurately describes your proficiency level:

Dosimetrist	A	B	C	D		A	B	C	D
Radiation Therapy Physics					Brachytherapy Procedures cont.				
Physical property of atoms and nuclei					Treatment documentation, procedure checklists, and forms				
Basic nuclear transformations					Application preparation				
Medical linear accelerators					Application insertion				
Interaction of high energy electrons and x-rays with matter					Implant localization and stimulation				
Photoelectric effect					Treatment prescription				
Compton scatter					Implant design and evaluation				
Pair production					Localization				
Physical properties of dose and exposure					Computer treatment planning				
Dosimetry equipment					Manual verification of computer calculations				
Ion chambers					Patient preparation, setup, and treatment				
Thermoluminescent Dosimetry					Post treatment quality assurance				
TG-51 (calibration protocol)					Emergency Procedures for HDR				
Radioactive isotopes					Routine emergency equipment				
Electron beam therapy					Physical plant emergencies				
IMRT (intensity modulated radiation therapy)					Minor and major emergencies				
Beam modifiers					Intravascular brachytherapy				
Physical wedges					Prostate seed implants				
Dynamic wedges					I-125 seeds				
Blocks					P-103 seeds				
3-D conformal radiation therapy					Other:				
Basic principals and applications:									
CT scan					Treatment Planning				
MRI machine					Auxiliary devices (digitizer, plotter)				
PET scan					Software				
					Quality Assurance				
Brachytherapy procedures									
Systemic errors									
Random errors									



DOSIMETRIST SKILLS EVALUATION - SELF ASSESSMENT

Dosimetrist	A	B	C	D		A	B	C	D
					Standards for Treatment Plans/ Protocols				
Special Techniques					Ensures accurate dose				
TBI (total body irradiation)					Ensures proper patient positioning				
Electron arc therapy					Ensures proper machine settings.				
Intraoperative electron therapy					Deviation of normal parameters for equipment				
TSI (total skin irradiation)									
Intraoperative electron therapy					Treatment Aids				
Other:					Field shaping				
					Custom blocking				
SRS (stereotactic radiosurgery)					Multileaf collimators				
Beam data acquisition for small fields					Half-value thick blocks				
Data input into treatment planning computer					Gonadal shields				
SRT (Stereotactic radiotherapy)					Eye shields				
Other:					Internal shields				
					In vivo Dosimetry				
					Use of TLD (Thermoluminescent Dosimeters) chips				
					Patient positioning				
					Immobilization devices				
					Body positioning				
					Anatomic landmarks				
					Other:				

Reviewed by: _____ Date: _____