## Test Specification Matrix 2010-2014

MDC8 Test Specification Matrix: Revised August 2009 based on the Medical Dosimetry Job Task Analysis		
Content Outline Category	% Weigh	
I. RADIATION PHYSICS		
A. Rodiooctivity	0.0	
8. Production of x-rays	16%	
C. Interaction of radiation with matter		
<ul> <li>D. Treatment machine characteristics (e.g., linear accelerator, cobatt 60, orthovoltage, superficial x-rays)</li> </ul>		
E. Imaging modalities (e.g., MRI, PETs, CT, ultrasound, SPECT, KV, MV cone beam)		
F. Imaging modalities(e.g., linear accelerator, cobalt 60, orthovoltage, superficial X-rays)		
G. Radiation units (e.g., activity, exposure, absorbed dose, and dose equivalent, radiation monitoring)		
II. DOSE CALCULATION METHODS		
A. Applied mathematics (e.g., geometry, trigonometry)	20%	
<ol> <li>Basic external beam calculations (computer and manual) calculations (e.g., electron and photon beam)</li> </ol>		
C. Effects of beam modifying devices (e.g., wedges, bolus, partial transmission blocks, compensators)		
D. Irregular field calculations		
E. Special calculations (e.g., off axis, gap calc, entrance/exit dose)		
F. Manual corrections for tissue inhomogeneities		
G. Dose normalization calculations (e.g., ICRU standards)		
III. TREATMENT PLANNING		
A. Isodose curve parameters		
8. Isodose distributions		
C. Bectron beam dose distributions	30%	
D. Beam energy selection		
E. Radiobiology [e.g., dose tolerances, hypotractionation, time dose tractionation (tdf) calculations, biologic modeling]		
F. Dose valume histogram (dvh) (e.g., differential, cumulative)		
G. IMRT, ARC therapy		
H. Cross-sectional anatomy (e.g., site specific clinical ancology)		
I. Treatment machine limitations		
J. Special procedures (e.g., TBI, TSEI, IORT, SRS, SBRT)		
K. Algorithms (e.g., treatment planning software, calculation)		
IV. LOCALIZATION		
A. Acquisition of patient data	=2	
8. Potient positioning		
Ancillary treatment devices (e.g., breast board, bite block)		
D. Treatment simulations (e.g., conventional simulations, CT simulations, PET-CT, 4D)		
E. Medical imaging with application to radiation encology	10%	
F. Digitally Reconstructed Radiograph (DRR/DCR)		
G. Image registration (image fusion)		
H. IGRT (e.g., CBCT, ultrasound guidance, KV-KV, MV-MV, infrared, fluoroscopy, CT on rails, fiducials)		
L. Patient immobilization techniques		
J. Site specific organ motion (e.g., bladder extension, respiratory motion)		

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