

## Test Specification Matrix 2010-2014

MDCB Test Specification Matrix: Revised August 2009 based on the Medical Dosimetry Job Task Analysis Content Outline Category		-
I. RADIATION PHYSICS		% Weight
A. Radioactivity	16%	
B. Production of x-rays		
C. Interaction of radiation with matter		
D. Treatment machine characteristics (e.g., linear accelerator, cobalt 60, orthovoltage, superficial x-rays)		
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%	
B. Basic external beam calculations (computer and manual) calculations (e.g., electron and photon beam)		
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	30%	
B. Isodose distributions		
C. Electron beam dose distributions		
D. Beam energy selection		
E. Radiobiology (e.g., dose tolerances, hypofractionation, time dose fractionation (tdf) calculations, biologic modeling)		
F. Dose volume histogram (dvh) (e.g., differential, cumulative)		
G. IMRT, ARC therapy		
H. Cross-sectional anatomy (e.g., site specific clinical oncology)		
I. Treatment machine limitations		
J. Special procedures (e.g., TBI, TSEI, IORT, SR5, SBRT)		
K. Algorithms (e.g., treatment planning software, calculation)		
IV. LOCALIZATION		
A. Acquisition of patient data	10%	
B. Patient positioning		
C. 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 oncology		
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)		
I. Patient immobilization techniques		
J. Site specific organ motion (e.g., bladder extension, respiratory motion)		

# Mdcb Study Guide

**Léo Pomar**



## **Mdcb Study Guide:**

## **Mdcb Study Guide** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Mdcb Study Guide**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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