

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)		

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Table of Contents Mdcb Exam Guide

1. Understanding the eBook Mdcb Exam Guide
 - The Rise of Digital Reading Mdcb Exam Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Mdcb Exam Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Mdcb Exam Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mdcb Exam Guide
 - Personalized Recommendations
 - Mdcb Exam Guide User Reviews and Ratings
 - Mdcb Exam Guide and Bestseller Lists

5. Accessing Mdcb Exam Guide Free and Paid eBooks
 - Mdcb Exam Guide Public Domain eBooks
 - Mdcb Exam Guide eBook Subscription Services
 - Mdcb Exam Guide Budget-Friendly Options
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mdcb Exam Guide
9. Balancing eBooks and Physical Books Mdcb Exam Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mdcb Exam Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mdcb Exam Guide
 - Setting Reading Goals Mdcb Exam Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mdcb Exam Guide
 - Fact-Checking eBook Content of Mdcb Exam Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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