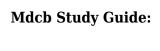
Test Specification Matrix 2010-2014

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		
 D. Treatment machine characteristics (e.g., linear accelerator, cobatt 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%	
 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		
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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Table of Contents Mdcb Study Guide

- 1. Understanding the eBook Mdcb Study Guide
 - The Rise of Digital Reading Mdcb Study Guide
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mdcb Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - $\circ\,$ Features to Look for in an Mdcb Study Guide
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mdcb Study Guide
 - Personalized Recommendations
 - Mdcb Study Guide User Reviews and Ratings
 - Mdcb Study Guide and Bestseller Lists
- 5. Accessing Mdcb Study Guide Free and Paid eBooks
 - Mdcb Study Guide Public Domain eBooks
 - Mdcb Study Guide eBook Subscription Services

- Mdcb Study Guide Budget-Friendly Options
- 6. Navigating Mdcb Study Guide eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Mdcb Study Guide Compatibility with Devices
 - Mdcb Study Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mdcb Study Guide
 - Highlighting and Note-Taking Mdcb Study Guide
 - Interactive Elements Mdcb Study Guide
- 8. Staying Engaged with Mdcb Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mdcb Study Guide
- 9. Balancing eBooks and Physical Books Mdcb Study Guide
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Mdcb Study Guide
- 10. Overcoming Reading Challenges
 - o Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mdcb Study Guide
 - Setting Reading Goals Mdcb Study Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mdcb Study Guide
 - Fact-Checking eBook Content of Mdcb Study 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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