

## WHO IS ELIGIBLE FOR MDCB CERTIFICATION?

### US CANDIDATES:

- Graduated a JRCERT accredited program

### INTERNATIONAL CANDIDATES:

- Practice outside the US
- Meet requirements outlined

## WHAT IS CERTIFICATION?

A voluntary process granting a credential for demonstration of a level of skill and knowledge to standardized criteria.

and

Continued demonstration of requirements of professional development.

## REASONS TO CERTIFY

- Broad-based knowledge in dosimetry
- Industry self-regulation
- Compliance with institutional accreditations (ASTRO, ACR)
- Mitigation of legal liability
- Public demand for standards
- Rapid advances in technology
- Growth in knowledge
- Evolution of industry
- Limitations of academic degrees

### MDCB CERTIFICATION EXAM ENSURES:

#### VALIDITY:

exam is representative of all knowledge and skill for competent performance.

#### RELIABILITY:

exam scoring is free of measurement error.

4,400+  
DOSIMETRISTS CERTIFIED

## EXAM DEVELOPMENT

### JOB TASK ANALYSIS

Industry standard to determine tasks, knowledge, skills required for **competent** job performance

### EXAM MATRIX

Treatment Planning **40%**  
Radiation Physics **16%**  
Dose Calculation Methods **15%**  
QA & Standard of Care **8%**  
Brachytherapy **6%**  
Localization **8%**  
Radiation Protection **7%**

### ITEM DEVELOPMENT

Rigorous process by which each item is developed and scored to assure **reliability**

### CUT SCORE STUDY

Industry standard method for determining **passing score**

### EXAM

### EXAM SCORING

- ✓ Exams are graded **electronically**
- ✓ Data is reviewed and analyzed by a PhD **psychometrician**
- ✓ All exams are equated to the determined **cut score** ensuring assessment to the same standard.



The MDCB is accredited by the National Commission for Certifying Agencies (NCCA) ensuring the health, welfare and safety of the public through the accreditation of certification programs that assess professional proficiency.

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