Medical Dosimetry Certification

**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.

**WHO IS ELIGIBLE FOR MDCB CERTIFICATION?**

**US CANDIDATES:**
- Graduated a JRCERT accredited program
- Hold a minimum of a Bachelor’s Degree

**INTERNATIONAL CANDIDATES:**
- Practice outside the US
- Meet requirements outlined

**REASONS TO CERTIFY**

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

**EXAM DEVELOPMENT**

**JOB TASK ANALYSIS**

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

**EXAM MATRIX**

<table>
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<tr>
<th>JOB TASK</th>
<th>TREATMENT PLANNING</th>
<th>RADIATION PHYSICS</th>
<th>DOSE CALCULATION METHODS</th>
<th>QA &amp; STANDARD OF CARE</th>
<th>RADIATION PROTECTION</th>
<th>LOCALIZATION</th>
<th>BRACHYTHERAPY</th>
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**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 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

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**MDCB CERTIFICATION EXAM ENSURES:**

**VALIDITY:**
- Exam is representative of all knowledge and skill for competent performance.

**RELIABILITY:**
- Exam scoring is free of measurement error.

4,700+ dosimetrists certified

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.

**LEARN MORE:** mdcb.org/applicant-handbook