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.

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)
- 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.

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 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.

Learn More: mdcb.org/handbook