

**THE NUCLEAR MEDICINE TECHNOLOGY
CERTIFICATION BOARD, INC.**

NMTCB(CT)

**ANNUAL
EXAMINATION
REPORT
2015**



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NMTCB(CT) 2015 Statistics

All Examinee Attempts April 2015:

Total Number:	93	
Total Number Pass:	83	89.25%
Total Number Fail:	10	10.75%

Summary Statistics April 2015:

Range of Scores	68-90
Average Score	80.95
Standard Deviation	4.91
Median Score	81

All Examinee Attempts November 2015:

Total Number:	110	
Total Number Pass:	86	78.18%
Total Number Fail:	24	21.82%

Summary Statistics November 2015:

Range of Scores	66-83
Average Score	79.70
Standard Deviation	5.90
Median Score	80

Introduction

The NMTCB(CT) credential is designed to establish the competency of individuals who are qualified to perform in the role of a computed tomography technologist. The first NMTCB(CT) examination was offered in November 2014 with the second and third examinations offered in April and November 2015. This summary report is intended to provide information about the 2015 NMTCB(CT) certification examinations.

Scaled Score Information:

Examination results are reported in terms of the scaled score, the mean scaled score, median scaled score, and a measure of the variability of the scaled score distribution -- the standard deviation.

The main objective is to obtain a pass/fail decision with a high degree of precision. However, it was recognized that there are occasions when there is a need to know whether an examinee's performance is close to the passing score or a distance from it. The scaled score is a transformation of the IRT value that is calculated based on the examinee's responses to the items presented during the examination. The scaled passing score was set to 75 on scale range of 0-99. That is, the ability estimate obtained from IRT required to pass the examination was "anchored" at 75. It is very important to note that the scaled score value is not a percentage value.

Content Outline:

The examination content percentages are:

- Domain I: System Operations & Instrumentation – 20%
- Domain II: Data Acquisition & Post Processing – 10%
- Domain III: CT Image Quality & Quality Assurance – 15%
- Domain IV: Patient Handling & Radiation Safety – 15%
- Domain V: Medications & Contrast Agents – 10%
- Domain VI: Procedures & Anatomy – 30%

Overall Examinee Performance:

Please refer to Table 1 for a general overview of the examination. This table presents the number of examinees who took the test, their average scaled score, the median scaled score, and the overall pass rate percentage beginning in 2014.

Table 1. 2014-2015 NMTCB(CT) Examinees

	Number of Examinees	Mean Scaled Score	Median Scaled Score	Overall Pass Rate
2014	117	80.49	81	87.18 %
2015 (April)	93	80.95	81	89.25 %
2015 (Nov)	110	79.70	80	78.18 %

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