

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

NMTCB(CT)

**ANNUAL
EXAMINATION
REPORT
2016**



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NMTCB(CT) 2016 Statistics

All Examinee Attempts 2016:

Total Number:	172	
Total Number Pass:	142	82.56%
Total Number Fail:	30	17.44%

Summary Statistics 2016:

Range of Scores	328-472
Average Score	406.76
Standard Deviation	31.75
Median Score	407

Introduction

The NMTCB(CT) certification exam 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. In 2016, the exam became “on demand” meaning applicants are able to schedule the exam at a testing site on a day and time convenient for them within the 3 month testing window they are assigned. This summary report is intended to provide information about the 2016 NMTCB(CT) certification examination.

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 375 on scale range of 200-500. That is, the ability estimate obtained from IRT required to pass the examination was “anchored” at 375. It is very important to note that the scaled score value is not a percentage value.

Beginning in 2016, the NMTCB(CT) examination scores are reported on a scale of 200-500, with **375** set as the scaled passing score. Prior to 2016, the scaled passing score was set at 75.

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. 2014-2016 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 %
2016*	172	406.76	407	82.56 %

**Beginning in 2016, the NMTCB(CT) examination scores are reported on a scale of 200-500, with 375 set as the scaled passing score. Prior to 2016, the scaled passing score was set at 75.*

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