

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

# **NMTCB(CT)**

**ANNUAL  
EXAMINATION  
REPORT  
2017**



**NMTCB  
3558 HABERSHAM AT NORTHLAKE  
BUILDING I  
TUCKER, GA 30084  
404-315-1739 / FAX: 404-315-6502  
board@nmtcb.org  
www.nmtcb.org**

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## NMTCB(CT) 2017 Statistics

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### All Examinee Attempts 2017:

Total Number:	224	
Total Number Pass:	187	83.48%
Total Number Fail:	37	16.52%

### Summary Statistics 2017:

Range of Scores	298-478
Average Score	409.19
Standard Deviation	35.39
Median Score	413

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### 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 2017 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.** 2014-2017 NMTCB(CT) Examinees

	<b>Number of Examinees</b>	<b>Mean Scaled Score</b>	<b>Median Scaled Score</b>	<b>Overall Pass Rate</b>
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 %
2017	224	409.19	413	83.48 %

*\*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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